

## About the Authors

**Mahdi Abdeljaouad** is a retired Full Professor at the Institut Supérieur de l'Éducation et de la Formation Continue (Université de Tunis). He received his Ph.D. in mathematics from the University of Washington (Seattle). His research and teaching interests include non-commutative algebra, teaching mathematics at a distance, and mathematical education. He is particularly active in the history of mathematics teaching in Arabic/Islamic countries. Playing key roles in the Association Tunisienne des Sciences Mathématiques, including as President, he is the editor of its journal (*Miftah al-hisab*). He has also edited the proceedings of four Colloques maghrébins sur l'histoire des mathématiques arabes (1988, 1994, 2004, 2010).

**Amy Ackerberg-Hastings** is Adjunct Professor of history at the University of Maryland University College and recently completed a two-year appointment cataloguing and digitizing mathematical instruments for the Smithsonian's National Museum of American History. Her research interests include the history of mathematics education in the United States and Scotland and the history of women in mathematics, science, and technology. Publications include "John Farrar and Curricular Transitions in Mathematics Education," *International Journal for the History of Mathematics Education* 5, no. 2 (2010): 15–30, and *Tools of American Mathematics Teaching, 1800–2000* (with Peggy Aldrich Kidwell and David Lindsay Roberts; Baltimore, MD: The Johns Hopkins University Press, 2008).

**Elena Ausejo** is Professor of the history of science at the University of Zaragoza (Spain); Editor of *LLULL, the Journal of the Spanish Society for the History of Science and Technology*; Member of the Spanish National Committee of the Division of History of Science and Technology of the International Union of History and Philosophy of Science (DHST/IUHPS); and Secretary of the International Commission on the History of Mathematics (ICHM, Inter-Union Commission IMU-IUHPS/DHST). Her research interests center on the social history of science—especially mathematics—in nineteenth- and twentieth-century Spain and on the history of scientific institutions in the nineteenth and twentieth centuries.

**Evelyne Barbin** is Full Professor of epistemology and history of sciences at the University of Nantes (France). She is a member of the Laboratory of Mathematics Jean Leray and the IREM (Institute for Research on Mathematics Education) of Nantes. Her research concerns the history of mathematics in seventeenth and nineteenth centuries, specifically mathematical proofs, and the relations between history and teaching of mathematics. Selected publications: *La révolution mathématique du XVIIIe siècle* (2006); *Des mathématiques éclairées par l'histoire. Des arpenteurs aux ingénieurs* (2012); *The Dialectic Relation between Physics and Mathematics in the XIXth Century* (E. Barbin & R. Pisano, 2013).

**Alain Bernard** is Assistant Professor (Maître de conférences) and teaches at Paris-Est University (UPE) within an institute for teacher training. He conducts research at Centre Alexandre Koyré on two topics: history of mathematics and mathematical sciences in Greek Late Antiquity, and history of mathematics and science pedagogy. With Christine Proust, he is preparing a volume on the interpretation of ancient sources in teaching context (Springer BSPS, forthcoming) and is pursuing research on ancient mathematical works written in the form of series of problems, like Diophantus's *Arithmetica*. Homepage in French at centre Koyré: <http://www.koyre.cnrs.fr/spip.php?article114>.

**Kristín Bjarnadóttir** is Emeritus Professor of mathematics education at the University of Iceland, School of Education. She completed a B.A. degree in physics and mathematics at the University of Iceland, an M.Sc. degree in mathematics at the University of Oregon in Eugene, and a Ph.D. degree in the field of mathematics education at Roskilde University, Denmark. She has taught mathematics and physics and given courses in mathematics education and its history at secondary and university levels in Iceland, and written textbooks on mathematics. Her research interests are in the field of the history of mathematics education.

**Andrea Bréard** is Associate Professor in the Mathematics Department at the Université Sciences et Technologies Lille 1. Until 2012 she was Vice-President of the Humanities and Social Science Department of École Polytechnique, where she was also part-time professor for History and Epistemology of Science. She received her Ph.D. in Philosophy, Epistemology, and History of Science from TU Berlin and Université Paris Diderot in 1997. Her thesis, *Re-Creation of a Mathematical Concept in Chinese Discourse: Series from the 1st to the 19th Century* was published in 1999 in German by Steiner. She recently completed a book manuscript entitled *Reform, Bureaucratic Expansion and Production of Numbers: Statistics in China at the Turn of the 20th Century* and currently works as a Research Scholar at the Cluster of Excellence Asia-Europe at the University of Heidelberg, Germany, on standards of validity in Chinese mathematical discourse.

**Sonja Brentjes** is a researcher at the Max Planck Institute for the History of Science in Berlin. She has also worked as a researcher, professor or visiting scholar in many other institutions including Universities of Berlin, Frankfurt am Main, Kassel, Leipzig, Ludwig Maximilians University in Munich, University of Seville, Sabancı University in Istanbul, and Aga Khan University in London/Karachi. Her research interests focus on oriental medieval history of mathematics and mathematics education and, more broadly, the history of science and intellectual history in Islamic societies. She has been a presenter at many conferences and served as a member of the editorial boards of many scholarly journals including *ISIS* and *Osiris*.

**João Bosco Pitombeira de Carvalho** received his Ph.D. degree in mathematics from the University of Chicago and was a teacher in the mathematics department of the Catholic University in Rio de Janeiro, Brazil, from which he retired as Professor Emeritus. His main interests are the history of mathematics education in Brazil and Latin America and the uses of the history of mathematics in mathematics education, and has sponsored several Master and Doctoral students on these subjects. Presently, he teaches in the graduate program of mathematics education at the University Severino Sombra, in the State of Rio de Janeiro, and collaborates with the graduate program in mathematics teaching of the Federal University of Rio de Janeiro.

**Ubiratan D'Ambrosio** received his Doctoral degree in Mathematics from the University of São Paulo, Brazil, in 1963. He is Emeritus Professor of Mathematics at the State University of Campinas/UNICAMP, São Paulo, Brazil (retired in 1994). Currently, he is Professor of the Graduate Program in Mathematics Education at UNIBAN/Universidade Bandeirantes Anhangera, in São Paulo, Brazil. He is also a Fellow of the AAAS/American Association for the Advancement of Science (1983). He is the recipient of the Kenneth O. May Medal of History of Mathematics, granted by the International Commission of History of Mathematics/ICHM/IUHPS/IMU (2001), and the recipient of the Felix

Klein Medal of Mathematics Education, granted by the International Commission of Mathematics Instruction/ICMI/IMU (2005). He is a member of the Académie Internationale d'Histoire des Sciences.

**Joseph W. Dauben** is Distinguished Professor of History and History of Science at the City University of New York. He is a *membre effectif* of the International Academy of History of Science and a corresponding member of the German Academy of Sciences Leopoldina. He has been editor of *Historia Mathematica*, an international journal for the history of mathematics, and chairman of the International Commission on the History of Mathematics. He is the author of *Georg Cantor, His Mathematics and Philosophy of the Infinite* and *Abraham Robinson: The Creation of Nonstandard Analysis, a Personal and Mathematical Odyssey*. A graduate of Claremont McKenna College (A.B. '66) and Harvard University (A.M., Ph.D. '72), he has been a member of the Institute for Advanced Study (Princeton) and Clare Hall (Cambridge), and an honorary member of the Institute for History of Natural Science of the Chinese Academy of Sciences. He is the recipient of a Guggenheim Fellowship and a Senior ACLS Fellowship; in January of 2012, he received the American Mathematical Society's Albert Leon Whiteman Memorial Prize for History of Mathematics.

**Fulvia Furinghetti** is Full Professor (retired) of Mathematics Education in the Department of Mathematics (University of Genoa). Her research concerns: beliefs, images of mathematics in society, proof, problem solving, use of history of mathematics in teaching, teacher professional development, and history of mathematics education. She has organized the celebrations of the Centenary of the journal *L'Enseignement Mathématique* and of ICMI and edited the proceedings. She developed the website on the history of the first 100 years of ICMI. In 2000–2004, she chaired HPM (the International Study Group on the relations between History and Pedagogy of Mathematics affiliated to ICMI).

**Livia Giacardi** is a Full Professor of History of Mathematics at the University of Turin. Her field of research is the history of mathematics and the history of mathematics education (nineteenth and twentieth centuries). She is the author of essays, critical editions of unpublished documents, and books for both specialists and for a more general public, and is editor of websites devoted to the history of mathematics teaching in Italy and abroad: <http://www.subalpinamathesis.unito.it/storiains/uk/documents.php> (with R. Scoth) and <http://www.icmihistory.unito.it/> (with F. Furinghetti). She is a member of the Scientific Committee for the collected works of Roger J. Boscovich, and is among the editors of the series *Convergenze* aimed at teacher training. She has been the Secretary of the Italian Society for the History of Mathematics (2000–2008), and is currently a member of the Council. She is also a member of the Scientific Commission of the Italian Mathematical Union.

**Hélène Gispert** is Professor in history of science in University Paris Sud-Orsay. A historian of mathematics and of mathematics education, especially in France in the nineteenth and twentieth centuries, she is presently working in three different fields: the circulation of mathematics in and by journals, its history, territories, and publics; the academic mathematical world in France in the first half of the twentieth century, its institutional frame and production; and the reform process in mathematic teaching in France in the twentieth century and its societal and epistemological frames.

**Henrique Manuel Guimarães** is Professor of the Institute of Education at the University of Lisbon with responsibilities in mathematics education as teacher and supervisor of prospective secondary mathematics teachers and as teacher of master's and doctoral courses. He is the former editor (2005–2012) of *Quadrante*, the Portuguese mathematics education research journal. He was a member of the team that elaborated on a new mathematics curriculum for basic education (2007), and has published several journal papers and book chapters. His current main research interests are problem solving in mathematics education, the teaching of numbers and algebra, mathematics reasoning, and the history of mathematics teaching.

**Annick Horiuchi** was educated in France at the École Normale Supérieure de Jeunes Filles and at the Université Paris Diderot (Paris 7) where she earned an M.A. in Mathematics and a Ph.D. in Japanese History. She is currently Professor at the Department of East Asia Languages and Civilisations of the Université Paris Diderot where she teaches Intellectual History of Early Modern (Tokugawa) Japan. She has published *Japanese Mathematics in the Edo Period (1600–1868): A study of the works of Seki Takakazu (?–1708) and Takebe Katahiro (1664–1739)* (Science Networks. Historical Studies), translated from the French by Silke Wimmer-Zagier, Birkhäuser Basel, 2010.

**Jens Høyrup** is Professor Emeritus at Roskilde University, Denmark, Section for Philosophy and Science Studies. Much of his research has dealt with the cultural and conceptual history of mathematics in Ancient Mesopotamia and Greco-Roman Antiquity, and during the Islamic and Latin Middle Ages. Among other books, he has published *In Measure, Number, and Weight: Studies in Mathematics and Culture* (SUNY Press, 1994), *Lengths, Widths, Surfaces: A Portrait of Old Babylonian Algebra and Its Kin* (Springer, 2002), and *Jacopo da Firenze's Tractatus algorismi and Early Italian Abacus Culture*. Together with Bernhelm Booß-Bavnbek, he has edited *Mathematics and War* (Birkhäuser, 2003).

**Geoffrey Howson** is Emeritus Professor of Mathematical Curriculum Studies at Southampton University, England. After graduating and obtaining postgraduate degrees from Manchester University, he taught at the RAF Technical College, Henlow, and the Royal Naval College, Greenwich, before moving in 1962 to Southampton University. He has written, edited, or contributed to many books and papers on mathematics, education, and mathematics education. Among other commitments, he has served as an Assistant Director of the Centre for Curriculum Renewal and Educational Development Overseas, President of the Mathematical Association, Chairman of the School Mathematics Project, a founder Director of BACOMET, and Secretary-General of ICMI.

**Alexander Karp** is a Professor of mathematics education at Teachers College, Columbia University. He received his Ph.D. in mathematics education from Herzen Pedagogical University in St. Petersburg, Russia, and also holds a degree from the same university in history and education. Currently, his scholarly interests span several areas, including the history of mathematics education, gifted education, mathematics teacher education, and the theory of mathematical problem solving. He is the managing editor of the *International Journal for the History of Mathematics Education* and the author of over 100 publications, including over 20 books.

**Agathe Keller** has been working on and thinking about Sanskrit medieval mathematical commentaries since 1995. She is based in Paris, as a researcher with CNRS.

**Jeremy Kilpatrick** is Regents Professor of Mathematics Education at the University of Georgia. He has taught at European and Latin American universities, receiving four Fulbright awards. He holds an honorary doctorate from the University of Gothenburg and is a Fellow of the American Educational Research Association, a National Associate of the National Academy of Sciences, and a member of the National Academy of Education. He received a Lifetime Achievement Award from the National Council of Teachers of Mathematics and the 2007 Felix Klein Medal from the International Commission on Mathematical Instruction. His research interests include proficiency in mathematics teaching, curriculum change and its history, assessment, and the history of research in mathematics education.

**Lee Peng Yee** is a Professor of Mathematics and Mathematics Education at the National Institute of Education, Nanyang Technological University, Singapore. He graduated with a Ph.D. (1965) from the Queens University of Belfast, Northern Ireland, the United Kingdom. He has been teaching for 50 years at universities in Malawi (Africa), New Zealand, the Philippines, and Singapore. He was head of the mathematics department at the National Institute of Education and served as vice president of ICMI (1987–1990, 1991–1994). His key publication is the book *Lanzhou Lectures on Henstock Integration* (1989). He has also edited two resource books for Singapore teachers.

**José Manuel Matos** is a Professor at the Faculty of Sciences and Technology of NOVA, the New University of Lisbon. He has taught mathematics at several secondary schools in Portugal. He obtained his Master's in Education at Boston University and his doctorate on mathematics education at the University of Georgia. He teaches courses on the education of teachers of mathematics and in the Doctoral Program in Education. He is the author and co-author of several books on mathematics education. His research interests include the history of mathematics education, curriculum, and learning mathematics.

**Marta Menghini** is Associate Professor in the Department of Mathematics of the University of Rome, Sapienza. She is the author of numerous published works in the fields of history of mathematics (on the development of projective and algebraic geometry in the last century), mathematics education, and the history of mathematics education. She was on the Scientific Committee and chaired the Organizing Committee of the International Symposium held in Rome in March 2008 entitled "The First Century of the International Commission on Mathematical Instruction: Reflecting and Shaping the World of Mathematics Education," and edited the volume published on this occasion by Enciclopedia Italiana. She participated in all international congresses on the History of Mathematics Education (Reykjavík 2009; Lisbon 2011; Uppsala 2013). In 2012, she gave a Regular Lecture at ICME 12 in Seoul.

**Charles Opolot-Okurut** is Associate Professor and researcher at Makerere University in Uganda where he obtained B.Sc. (Concurrent education). He received his Master's Degree at Bristol University (UK) and Ph.D. from University of the Western Cape (SA). For over 30 years, he has taught mathematics and mathematics education at the secondary and higher education levels. He has attended several national and international courses, workshops, seminars, and conferences on mathematics education, and has written several published and unpublished manuscripts and articles in local and international refereed journals as well as book chapters. He co-authored the Secondary School Mathematics series for Uganda.

**Karen Hunger Parshall**, Professor of History and Mathematics at the University of Virginia, has worked extensively on the history of nineteenth- and twentieth-century mathematics. Among her books are *The Emergence of the American Mathematical Research Community, 1876–1900* (with David E. Rowe) (1994), *James Joseph Sylvester: Life and Work in Letters* (1998), *James Joseph Sylvester: Jewish Mathematician in a Victorian World* (2006), and *Taming the Unknown: A History of Algebra from Antiquity to the Early Twentieth Century* (with Victor J. Katz) (in press, to appear in 2014).

**João Pedro da Ponte** began his professional activity as a school mathematics teacher and is currently Professor and Director of the Institute of Education of the University of Lisbon. He has been a visiting professor in universities in Brazil, Spain, and the USA. He is author/co-author of several books and articles in national and international journals and associate editor of *The Journal of Mathematics Teacher Education*. He coordinated a government report about pre-service teacher education (2006) and a new mathematics curriculum for basic education (2007). His current main research interests are the teaching of algebra and statistics and the development of mathematics reasoning.

**Christine Proust** is historian of mathematics and senior researcher at the French Centre National de la Recherche Scientifique (CNRS). She works mainly on mathematical cuneiform texts dating from the Old Babylonian period (early second millennium BCE) and found in southern Mesopotamia. She has published two books devoted to the edition and analysis of several hundreds of school tablets from Nippur and the reconstruction of mathematical curriculum in scribal schools: *Tablettes mathématiques de Nippur*, *Varia Anatolica* vol. XVIII (Istanbul: IFEA, De Boccard, 2007), and *Tablettes mathématiques de la collection Hilprecht, Texte und Materialien der Frau Professor Hilprecht Collection* vol. VIII (Leipzig: Harrassowitz, 2008).

**Dhruv Raina** is Professor at the Jawaharlal Nehru University, New Delhi. He studied physics at the Indian Institute of Technology, Mumbai and received his Ph.D. in the philosophy of science from Göteborg University. His research has focused upon the politics and cultures of scientific knowledge in South Asia. His co-edited publications include *Situating the History of Science: Dialogues with Joseph Needham* (1999), *Social History of Sciences in Colonial India* (2007), and *Science between Europe and Asia* (2010). In addition, he has authored *Images and Contexts: The Historiography of Science and Modernity* (2003) and co-authored *Domesticating Modern Science* (2004). Over the last few years, he has been working on cultures of history and science policy in postcolonial South Asia, and the social theory of science, technology and mathematics.

**David Lindsay Roberts** is an Adjunct Professor of mathematics at Prince George's Community College in Maryland (USA). He has an M.A. in mathematics from the University of Wisconsin-Madison and a Ph.D. in the history of science from Johns Hopkins University. He is the co-author, with Peggy Aldrich Kidwell and Amy Ackerberg-Hastings, of *Tools of American Mathematics Teaching, 1800–2000*, published by the Johns Hopkins University Press in 2008, and is the author of *American Mathematicians as Educators, 1893–1923: Historical Roots of the “Math Wars,”* published by Docent Press in 2012.

**Leo Rogers** is a founding member of the British Society for the History of Mathematics and founder of the International Study Group on the History and Pedagogy of Mathematics (HPM). He has taught in primary and secondary schools in England, and as a trainer of teachers has worked with pupils and teachers on a number of European Community curriculum and research projects. His principal interests are the historical, philosophical, and cultural aspects of mathematics as they relate to the development of curricula, mathematical pedagogies, and individual learning. When not involved with education, he dances the Argentine Tango.

**Micah Ross** is Adjunct Professor in the Department of History at the University of Idaho. He holds a Ph.D. in the History of Mathematics from Brown University and has completed post-doctorates at Paris Diderot University and Kyoto Sangyō University. He has focused on cross-cultural comparisons of the astronomy and mathematics of Greco-Roman Egypt. He has also written on the development of astrology in Egypt in *Culture and Cosmos* and edited a collection of Egyptian horoscopes for *Egitto e vicino oriente*.

**Gert Schubring** is a retired member of the Institut für Didaktik der Mathematik, a research institute at Bielefeld University, and at present is Visiting Professor at the Universidade Federal do Rio de Janeiro (Brazil). His research interests focus on the history of mathematics and the sciences in the eighteenth and nineteenth centuries and their systemic interrelation with social-cultural systems. One of his specializations is history of mathematics education. He has published several books, among which is *Conflicts between Generalization, Rigor and Intuition: Number Concepts Underlying the Development of Analysis in 17th–19th Century France and Germany* (New York, 2005). He is chief-editor of the *International Journal for the History of Mathematics Education*.

**Roberto Scoth** read at the University of Cagliari, obtaining a degree in Mathematics and a Ph.D. in History, Philosophy and Educational Sciences. He is currently an Assistant Professor in the Mathematics and Computer Studies Department at Cagliari University. He has participated in numerous conferences and seminars and is a member of SISM (Italian Society of History of Mathematics). His research and publications relate mainly to the history of mathematics education and the processes of diffusion of mathematics in Sardinia from the seventeenth to the nineteenth centuries.

**Harm Jan Smid** studied mathematics at Leyden University. He was a math teacher from 1966 until 1975 and a lecturer at a teacher training college from 1975 until 1981. From 1981 until his retirement in 2007, he was assistant, later Associate Professor in mathematics and mathematics education at the

Delft University of Technology. He earned his Ph.D. in 1997 with a thesis on the history of Dutch math teaching in the nineteenth century. Since 2008, he has been the chairman of the Dutch working group on the history of mathematics education.

**Rudolf Sträßer** (or Straesser) is retired Professor of Didactics of Mathematics of Justus-Liebig-University of Giessen, Germany, and Adjunct Professor of the Australian Catholic University (ACU). He has previously worked at universities in Bielefeld, Kassel, Klagenfurt, and Lulea. His present interests are vocational contexts of mathematics, teaching and learning of these contexts, and the use of instruments (like textbooks and computer software, especially for geometry) in mathematics education.

**Alexei Volkov** is an Associate Professor of the National Tsing-Hua University, Taiwan. He is interested in the history of mathematics and mathematics education in traditional China and Vietnam. His recent publications include “Mathematics and Mathematics Education in Traditional Vietnam,” in E. Robson and J. Stedall (eds.), *Oxford Handbook of the History of Mathematics*, Oxford University Press, 2009, pp. 153–176, and “Argumentation for state examinations: Demonstration in traditional Chinese and Vietnamese mathematics,” in K Chemla (ed.), *The History of Mathematical Proof in Ancient Traditions*, Cambridge University Press, 2012, pp. 509–551.

**Yibao Xu** was a Professor of mathematics at Borough of Manhattan Community College of the City University of New York. He studied the history of science in the Ph.D. program of History at the Graduate School and University Center of CUNY, and was awarded his Ph.D. in 2005. Among his most recent publications were “Dialectics of Numbers: Marxism, Maoism, and the Calculus of Infinitesimals,” in *Mr. Science and Chairman Mao’s Cultural Revolution*, Nancy Wei and Darryl E. Brock, eds. (Lanham, MD: Lexington Books, 2013): pp. 165–196; and the Chinese-English edition of the *Nine Chapters on the Art of Mathematics*, 3 vols., in collaborating with Joseph W. Dauben and Shuchun Guo (Shenyang, China: Liaoning Education Press, 2013). He also served as Secretary of the History and Pedagogy of Mathematics (HPM), Americas Section. Yibao Xu passed away in 2013.

**Luciana Zuccheri**, University of Trieste (Italy), is Professor of history of mathematics and mathematics education in the Department of Mathematics and Earth Science, and also serves as coordinator of an interdepartmental centre for research in mathematics education and of training courses for secondary school teachers. She has carried out research studies in the fields of convex geometry and mathematics education. Her current main interest is in the history of mathematics education and the teaching of mathematics in secondary school, also by means of cross-cultural comparison. In addition, she works in the field of the popularization of mathematics.

**Verena Zudini** is Research Fellow at the Department of Psychology of the University of Milano-Bicocca, Milan (Italy). After receiving degrees in mathematics and in philosophy, she completed a Ph.D. program in psychology and cognitive science. Her research interests include the history and epistemology of psychology, mathematical psychology and psychophysics, mathematics education, and history of mathematics.

# Name Index

## A

- 'Abd al-Wahhāb, Ṣāliḥ, 416  
Abad, U. Mas, 288  
Abakumov, Alexander A., 315, 316  
Aballagh, Mohamed, 90, 91  
'Abd al-Samad b. 'Alī, 99  
'Abdallāh b. Haydar, 99  
Abdeljaouad, Mahdi, 405–427  
Abdessaïem, Ahmed, 420, 422  
Abdi, Ali A., 401  
Abduh, Muhammad, 407, 421  
Abelard, 113, 114  
Abellanas, Pedro, 290  
Abramov, Alexander M., 303, 319  
Abrougui, Hanène, 418, 419  
Absmeier, Christine, 133  
Abū 'Abd Allāh Muḥammad ibn 'Anbasah, 92  
Abū Abdallāh al-Sharīf, 97  
Abū 'Abdallāh Muḥammad, known as al-Tharghī, 98  
Abū Aḥmad Ja'far b. Abī Yaḥyā, 90  
Abu al-Wafa, 474  
Abū Ḥanīfa, 86, 100  
Acerbi, Fabio, 43, 50  
Ackerberg-Hastings, Amy, 525–537  
Adam, Pedro Puig, 289, 290  
Adam, William, 376  
Adams, Charles Francis, 527–528, 530  
Adams, John Quincy, 326  
Adelard of Bath, 114  
Adler, Jill, 559  
Adodurov, V.Ye., 307  
Adrain, Robert, 533  
'Aḍud al-Dawla, 88  
Aélius Théon, 40  
Aggarwal, Abhilshasha, 377–380  
Agnesi, Maria Gaetana, 537  
Aḥmad b. Ḥanbal, 86  
Aḥmad b. 'Ibād, Shihāb al-Dīn, 97, 101  
Ahmed Bey, 406, 408, 414  
Aida Yasuaki, 169  
Aires, Ana Paula, 295  
Akhḍarī, 'Abd al-Raḥmān, 409  
Akizuki, Yasuo, 557  
Akropolites, George, 144  
'Alā' al-Dīn Tekesh, 94  
al-Abādī, 97  
Alabushev, 306  
Alam, M. Anis, 383  
al-'Amilī, Bahā' al-Dīn, 98  
al-Bārinbārī, Nāṣir al-Dīn, 102  
al-Battānī, Muḥammad b. Jābir, 94  
al-Bayyānī, Abū 'Abdallāh Muḥammad, 90  
Albert the Great (Magnus), 117  
Alberto, Carlo, 207  
al-Bīrūnī, Abū l-Rayḥān, 88  
Albis-González, Víctor Samuel, 346  
al-Bitrujī, 118  
Albree, Joe, 532  
al-Buzjānī, Abū l-Wafā', 88, 92  
Alcaráz, Maria Guadalupe Garcia, 339  
al-Chaghmīnī (al-Chaghmīnī), Maḥmūd b. Muḥammad, 410  
Alcuin of York, 111  
al-Dhababī, Shams al-Dīn, 95  
al-Dimashqī, Maḥmūd al-Baṣīr al-Ṣāliḥī, 97, 98  
al-Din at-Tusi, Nasir, 410, 478  
Aldon, Gilles, 572  
Alejandre, Ruth López, 190, 192–194  
Aleksandrov, A.D. *See* Alexandrov, A.D.  
Alexandra, M., 19  
Alexandrov, A.D., 554  
al-Fārābī, Abū Naṣr, 93, 94  
al-Fattāl, Ibrāhīm, 98  
Alfonso X, 118  
al-Gīlānī, Kūshyār b. Lābbān, 86  
al-Ḥajjāj b. Yūsuf b. Maṭar, 102, 103  
al-Ḥasan, Abū Muḥammad, 88  
al-Ḥassār, Abū Bakr Muḥammad b. 'Abdallāh, 91  
al-Hawārī al-Misrātī, 'Abd al-'Azīz, 410  
'Alī, al-Sayyid, Tilmīdh Ibn Majdī, 97  
'Alī b. 'Īsā, 92  
al-Juzjānī, Abū 'Ubayd 'Abd al-Wāḥid, 89  
al-Kāfiyāji, Muḥyī l-Dīn Muḥammad b. Sulaymān, 88, 97



- al-Karaji, 474  
 al-Kāshī, Jamshīd, 104  
 al-Khāzin, Abū Ja'far, 88  
 al-Khuddāmī, Abdallāh b. Muḥammad, 104  
 al-Khujaḍī, Muḥammad, 88  
 al-Khwārizmī, Muhammad Ibn Mūsā, 86, 93, 432, 434  
 al-Kindī, Ya'qūb b. Ishāq, 87, 94  
 al-Kūhī, Abū Sahl, 88  
 al-Kurdī, Munlā Sharīf, 98  
 al-Lakhmī, Abū l-Ḥasan 'Alī b. Mūsā, 90  
 Allard, André, 432  
 Allen, Ann Taylor, 575  
 al-Maghrāwī, Abū l-'Abbās Aḥmad b. Muḥammad,  
     known as Ibn Zāghū, 91  
 al-Majārī, Abū 'Abdallāh Muḥammad, 97, 98  
 al-Masīhī, Abū Sahl, 93, 94  
 Almeida, Mária Cristina, 295–297  
 al-Mughāzilī, Abū 'Amr, 92  
 al-Muḥibbī, Muḥammad Amīn b. Faḍlallāh, 98, 102  
 al-Musta'in billāh, Aḥmad, 87  
 al-Mu'taḍid billāh, 87, 88  
 al-Muta'sim billāh, 87, 88  
 al-Nakhlī, Muḥammad, 421  
 al-Nātilī, Abū 'Abdallāh, 89  
 al-Nayrīzī, Abū l-'Abbās al-Faḍl, 94  
 al-Nisābūrī, Niẓām al-Dīn al-Ḥasan b. Muḥammad,  
     98, 104  
 al-Nu'aymī, 'Abd al-Qādir, 97, 102  
 Alpoim, José Fernandes Pinto, 192  
 al-Qāhirī, 'Abd al-Raḥīm b. Ibrāhīm, 97  
 al-Qalaṣādī, 'Alī b. Muḥammad, 89–91, 97, 99, 103  
 al-Qusṭurī, Abū 'Abdallāh Muḥammad, 90  
 al-Rāzī, Fakhr al-Dīn, 93, 94  
 al-Rūmī, Qazī-zāde, 103, 410  
 al-Rūzbihānī, Muḥammad b. Haqq, 98  
 al-Sakhāwī, Shams al-Dīn, 96, 97, 101, 102  
 al-Samarqandī, Shams al-Dīn, 103, 410  
 al-Saḥī, 'Abdallāh b. Sulaymān, 97  
 al-Sawādī, Muṣṭafā b. 'Abd al-Raḥmān, 98  
 al-Sayyid, 97, 410, 411  
 al-Shābbī, Abū l-Qāsim, 411  
 al-Shafi'ī, Abū 'Abdallāh Muḥammad b. Idrīs, 86  
 al-Shaṭṭī, Muḥammad al-Ṣādiq, 406, 411, 415  
 al-Shirwānī, Shams al-Dīn, 97  
 al-Sijzī, Aḥmad b. Muḥammad b. 'Abd al-Jalīl, 86,  
     88, 92  
 al-Sūbīnī, Ibrāhīm b. 'Umar, 96  
 al-Subkī, Tāj al-Dīn, 95  
 al-Ṣūfī, 'Abd al-Raḥmān, 88  
 al-Ṭinbukṭī, Aḥmad Bābā, 91  
 al-Ṭūsī, Naṣīr al-Dīn, 410  
 al-'Uqbānī, Abū 'Uthmān Muḥammad b. Muḥammad, 97  
 al-Uqlīdisī, Abū l-Ḥasan Aḥmad b. Ibrāhīm, 86  
 Alvim, Francisco Cordeiro da Silva Torres, 339, 340  
 al-Warrāq, 97  
 al-Zamzamī, al-Badr Husayn, 96  
 al-Zamzamī, Ibrāhīm b. 'Alī, 96  
 al-Zarnūjī, Burhān al-Dīn, 99, 100  
 Amaldi, Ugo, 215, 506  
 Amberg, Ernst, 586  
 Ameis, Jerry, 571  
 Amenope, 37  
 Amiot, A., 207, 476, 480  
 An Lushan, 63  
 Anas b. Mālik, 86  
 Anderson, John, 272  
 Anderson, Maria H., 568  
 Andrade, Jules-Frédéric-Charles, 502  
 Andrea, Eduardo, 295  
 Andresen, Lembit, 446  
 Antero, Tomás, 342  
 Apollonius, 39, 474  
 Aporti, Ferrante, 207  
 Appell, Paul Émile, 346  
 Araujo Guimarães, Manoel Ferreira de, 339  
 Arbogast, Louis François Antoine, 138  
 Arboleda, Luis Carlos, 346  
 Archibald, Raymond Clare, 586, 588  
 Archibald, Thomas, 178, 181, 182, 185  
 Archimedes, 38, 39, 94, 202, 212, 372, 474, 475, 494,  
     500, 544  
 Ardanaz, Constantino de, 288  
 Arenas, José Núñez de, 343  
 Arenzana, Víctor, 285  
 Arezzo, Guido di, 112  
 Arianrhod, Robyn, 537  
 Aristotle, 39, 43, 48, 93, 115, 116, 134, 147, 494  
 Arnalds, Ari, 445  
 Arnauld, Antoine, 461, 476–478  
 Arney, David C., 556  
 Arnold, Matthew, 260  
 Arnoulet, François, 416  
 Arrighi, Gino, 120  
 Artigue, Michèle, 467, 470, 498, 504, 508, 510  
 Aryābhata, 382  
 Arzarello, Ferdinando, 589  
 Arzelà, Cesare, 215  
 Asanis, Spyridon, 145  
 Ascher, Marcia, 188  
 Ascher, Robert, 188  
 Ascolani, Adrian, 338, 347, 350  
 Ascoli, Guido, 223  
 Ash, Katie, 568  
 Ashfield, Jean, 568  
 Assirelli, Tonino, 202  
 Assude, Teresa, 467  
 Astralabius, 114  
 Astudillo, Maria Tereza González, 342  
 Athen, Hermann, 252  
 Athenaeus, 39  
 Audet, Louis-Philippe, 181  
 Augustine, 110, 114  
 Auras, Gladys Mary Teive, 349  
 Ausejo, Elena, 283–291, 343, 487  
 Austin, Joe Dan, 509  
 Autolykos, 88  
 Averchenko, Arkady T., 312  
 Ávila, José Joaquim de, 342  
 Axelrod, Paul, 182, 325–327, 330  
 Aydin, Yusuf, 591

**B**

- Babu, Senthil D., 381, 530  
 Bacci, Riccardo, 206  
 Bach Hamba, Ali, 407, 421  
 Bacon, Roger, 117  
 Badger, Henry C., 534  
 Bai Zhidong, 373  
 Baillet, Jules, 39  
 Bails, Benito, 194, 285, 340, 342, 343  
 Bakalti, Souad, 424  
 Balmer, Randall, 424  
 Baltzell, E. Digby, 184  
 Baltzer, Richard, 213, 287  
 Banū Mūsā, 88  
 Bao Huanzhi, 60, 66  
 Bao Rongjue, 364  
 Barbazo, Eric, 234  
 Barber, W.T.A., 159  
 Barbery, Manuel María, 288  
 Barbin, Evelyne, 473–489  
 Barbosa, Francisco Villela, 293, 342  
 Barnard, H.C., 529  
 Baron, Roger, 114  
 Barra, Mario, 226  
 Barrantes, Hugo, 337, 343, 344, 558  
 Barrow, Isaac, 136, 185  
 Bartolache, José Ignacio de, 192, 193  
 Bartolini Bussi, Maria G., 574, 575  
 Barton, Tamsyn, 47  
 Basedow, Johann Bernhard, 139  
 Bass, Hyman, 556  
 Bassani, Anselmo, 214, 485  
 Bastos, Maria Helena Câmara, 338  
 Basu, Aparna, 383  
 Battaglini, Giuseppe, 212  
 Baumont, Maurice, 188  
 Bayly, Christopher, 14  
 Bayram V, Muḥammad, 406  
 Bazarov, 310  
 Beatley, Ralph, 485  
 Beauharnais, Eugène de, 202  
 Beaujouan, Guy, 112  
 Becker, Carl H., 367  
 Becker, Joanne Rossi, 448  
 Bede (the venerable), 110, 111  
 Bedini, Silvio, 180  
 Begle, Edward Griffith, 450, 451, 559  
 Behari, Ram, 554, 557  
 Behnke, Heinrich, 555  
 Behrendsen, Otto, 249, 501  
 Beke, Emanuel, 219, 496, 497, 501, 503–505, 586  
 Belhoste, Bruno, 230–232  
 Béliidor, Bernard Forest de, 138, 292, 462  
 Bell, Andrew, 273, 530  
 Bellaigue, C. De, 260  
 Bellegarde, Pedro de Alcântara, 554  
 Bello, Andrés, 345  
 Bello, Giulia di, 222  
 Belon du Mans, Pierre, 95  
 Beltrame, Josilene, 341, 349  
 Ben Ayed, Laroussi, 416, 420  
 Ben Barquète, Amor (also Ibn Barakāt, ‘Umar), 416–420  
 Ben Ḥajj ‘Umar, Muḥammad, 415  
 Ben Mustapha, Hassouna, 408, 415, 416  
 Ben Mustapha, Kairallah, 408, 409  
 Ben Salah, Salah, 408, 409  
 Ben Salah, Tahar, 417, 420  
 Ben Salem, Lilia, 426  
 Benavot, A., 324  
 Bender, Peter, 484  
 Benedetto da Firenze, 120  
 Berezanskaya, Elizaveta S., 316  
 Berezkina, El’vira I., 61  
 Bergeron, Aimé, 341, 346, 355  
 Berggren, J. Lennart, 88, 92  
 Bergmann, Werner, 112  
 Berman, Simon L., 567  
 Bernard, Alain, 26–51  
 Bernardi, Claudio, 589  
 Bernhardt, August-Ferdinand, 242  
 Berthoin, Jean, 237  
 Bertini, Giovanni Maria, 210  
 Bertrand, Joseph Louis François, 465  
 Beth, Evert Willem, 449  
 Bethell, Leslie, 335  
 Bettazzi, 216  
 Betti, Enrico, 207, 212, 213, 215, 216  
 Beyer, Walter O., 342, 343  
 Bézout, Étienne, 207, 212, 213, 215, 216  
 Bhabha, Homi J., 384  
 Bhāscara, 378  
 Bhāskarācharya, 382  
 Bidwell, James K., 4  
 Biggerstaff, Knight, 161  
 Biggs, Edith, 264, 488  
 Binet, Alfred, 549  
 Bioche, Charles, 498, 504  
 Biot, Jean-Baptiste, 479  
 Birkbeck, George, 272  
 Birkhoff, George David, 485  
 Birnbaum, Peter, 253  
 Bitzer, Donald, 569  
 Bjarnadóttir, Kristín, 5, 424–454  
 Bkouche, Rudolf, 477, 484  
 Blair, Ann, 527  
 Blanchet, M.A., 477  
 Blankertz, Herwig, 517  
 Blatz, W.E., 330  
 Bloch, Marc, 17  
 Blum, Werner, 519  
 Bobylin, Viktor V., 303, 313  
 Boethius, 110–113, 116, 118, 432, 474  
 Bogarte, M.E., 327  
 Boltz, William G., 56  
 Bompiani, Enrico, 554  
 Bonaparte. *See* Napoleon  
 Bonaparte, Elisa, 203  
 Bonaparte, Joseph, 202, 203  
 Boncompagni, Giulio, 207–209  
 Bonnécamps, Joseph-Pierre, 117

- Bonnycastle, 378  
 Booth, Alain D., 44, 45  
 Borbevih, Zh., 145  
 Borel, Émile, 233, 480, 483, 484, 498, 550, 576  
 Borgato, Maria Teresa, 214  
 Borgi, Piero, 435  
 Borneleit, Peter, 253, 254  
 Borst, Arno, 112  
 Bossut, Charles, 204, 206  
 Botsch, Otto, 486  
 Bottai, Giuseppe, 223–224  
 Boucharlat, Joseph Louis, 288, 346, 379  
 Bouché-Leclerc, Auguste, 47  
 Bourbaki, 236, 249, 450, 451, 485  
 Bourdon, Pierre-Louis-Marie, 287, 288, 463, 464  
 Bourguiba, Habib, 405  
 Bourlet, Carlo, 498, 552  
 Boutet, Martin, 181  
 Bouthillier, Jean-Antoine, 178  
 Boutros, Felix, 378  
 Bouwman, Jason, 6  
 Bowditch, Nathaniel, 537  
 Boxer, Charles Ralph, 189  
 Boyer, Carl, 447, 459–461  
 Bradley, Robert E., 494  
 Bradwardine, Thomas, 118  
 Brafman, Clara, 349  
 Brahmagupta, 75, 77, 378, 382  
 Braudel, Fernand, 11  
 Braunfeld, Peter, 569  
 Breakell, J., 268  
 Bréard, Andrea, 153–166  
 Brentjes, Sonja, 85–105  
 Breslich, Ernst R., 366  
 Bretschneider, Carl Anton, 480, 484, 485  
 Brewer, J.S., 117  
 Bridge, 378, 379  
 Briem, Eirfkur, 441, 445  
 Brigaglia, Aldo, 213, 219  
 Briggs, Henry, 571  
 Brioschi, Francesco, 212, 213  
 Briot, Charles A., 288  
 Britton, John P., 32  
 Brock, William H., 262, 574  
 Brown, Giles, 111  
 Brown, James, 272  
 Brown, J.C., 327  
 Brown, Leon Carl, 407  
 Brown, Stuart E., 407  
 Bruce, Jacob, 304  
 Brun, Viggo, 136  
 Brunacci, Vincenzo, 206  
 Bruner, Jerome, 450, 454  
 Bruning, Jens, 139, 140, 142  
 Brushtein, Alexandra Ya., 19  
 Bubnov, Nicolaus, 112  
 Bucci, Sante, 202  
 Bugenhagen, Johannes, 132, 133  
 Būhājīb, Sālim, 406, 407, 418  
 Buhl, Adolphe, 548  
 Bulev, Nikolay, 146  
 Bullynck, Marteen, 443, 444  
 Bundgaard, Agnete, 452  
 Bundgaard, Svend, 451  
 Bunt, Lucas Nicolaas Hendrik, 585  
 Burali-Forti, Cesare, 223  
 Burdick, Bruce Stanley, 192  
 Burnett, Charles, 112, 114, 115  
 Burns, P.C., 326, 327  
 Burton, Warren, 568  
 Busard, H.L.L., 114, 117  
 Busse, Fyodor, 312–314  
 Butler, Jon, 181  
 Butts, R. Freeman, 566
- C**  
 Cagnoli, Antonio, 206  
 Cai Shanghe, 370–372  
 Cai Yuanpei, 367  
 Cajori, Florian, 3, 177, 178, 180, 185, 526, 568  
 Calkins, Norman Allison, 349, 350  
 Calligaris, Louis, 414, 415  
 Campanus of Novara, 117  
 Campbell, Brian, 49  
 Campbell, Margaret V., 339, 340, 344  
 Campenon, Jean-Baptiste, 416  
 Campo, Jerónimo del, 288  
 Campomanes, Pedro Rodríguez, 285  
 Campos, Francisco, 352  
 Camus, Charles Étienne Louis, 496  
 Candeias, Rui, 298  
 Cannizzaro, Lucilla,  
 Cantor, Georg, 347, 500, 545, 546  
 Capanema, Gustavo, 352, 353  
 Capella, 111, 112, 114, 474  
 Caramalho Domingues, João, 496  
 Carbone, Luciano, 210  
 Cardano, Girolamo, 460  
 Cárdenas, Lázaro, 351  
 Cardoso, Tereza, 337, 341  
 Carnot, Lazare, 292  
 Carpentier, Marie-Pape, 571  
 Carr, 381  
 Cartier, Jacques, 176  
 Carvalho, João Bosco Pitombeira de, 191, 193, 335–355,  
 466, 467, 474  
 Carvalho, Rómulo, 460, 462, 464  
 Casati, Gabrio, 208–218, 221, 225  
 Casey, John, 482  
 Castagnola, 213–214  
 Castelnuovo, Emma, 449, 481, 559  
 Castenuovo, Guido, 218–221, 225, 484, 503  
 Casulleras, Juan, 290  
 Catalã, José Sala, 194  
 Catherine II, 308  
 Catunda, Omar, 353  
 Cauchy, Augustin-Louis, 342, 354, 372, 494, 497,  
 498, 507  
 Cavalieri, Bonaventura, 504

- Cavigneaux, Antoine, 29  
 Cellai, Gaetano, 206  
 Ceng Jiongzhi (Tsen Chiung-tze), 369  
 Ceva, Giovanni, 266  
 Chamberlain, Michael, 101, 102  
 Champlain, Samuel de, 175  
 Chandrasekharan, Komaravolu S., 554  
 Charbonneau, Louis, 178, 182, 185  
 Charette, François, 96, 105  
 Charlemagne, 4, 109–112  
 Charles III, 285  
 Charles V, 283  
 Charnitzky, Jürgen, 223  
 Charpin, Dominique, 29  
 Chatelain, É., 117, 118  
 Châtelet, Albert, 576  
 Châtelet, Emilie du, 537  
 Chebyshev, Pafnuty L., 22, 314, 573  
 Chemla, Karine, 57, 67, 158  
 Chen Huan, 364  
 Chen Jiangong, 370  
 Chen Jingrun, 373  
 Chen Wen, 364  
 Chen Zhijian, 365  
 Cheng Dawei, 67, 68, 157, 158  
 Cheng Fangping, 68  
 Cheng Minde, 370  
 Chern Shiing-Shen, 166, 367–370, 375  
 Chervel, André, 6, 230  
 Chiquito, Martín, 343  
 Chizhov, Dmitry, 311, 312  
 Chonacky, Norman, 570  
 Choquet, Gustave, 353, 354, 449, 451, 469, 486, 508, 554, 555, 559  
 Chou Yi, 365  
 Chouquet, Gérard, 40, 49  
 Chow Kai-wing, 154  
 Christensen, S.A., 3  
 Christensen, Thomas, 3  
 Christian IV, 136  
 Christianidis, Jean, 50  
 Chrystal, George, 274, 275  
 Chulalongkorn, 385  
 Chung Kai-Lai, 369  
 Chutry, Vishno Soonder, 378  
 Ciarrapico, Lucia, 226  
 Cipolla, Carlo M., 120  
 Ciprandi, Irene, 205  
 Cirodde, Paul-Louis, 288  
 Civil, Miguel, 29  
 Clagett, Marshall, 36  
 Clairaut, Alexis-Claude, 461, 462, 476, 478, 481, 529  
 Clancier, Philippe, 36  
 Clap, Thomas, 183, 184  
 Claparède, Édouard, 549  
 Clarendon (Earl of), 261  
 Clarke, Marguerite, 44, 185  
 Clason, Robert G., 4  
 Clausberg, Christlieb von, 439–441  
 Clavius, Christopher, 117, 134, 135, 474, 475  
 Clebsch, Alfred, 248  
 Clements, M.A. (Ken), 178, 324, 325, 446, 526, 531, 537, 567  
 Closs, Michael, 188  
 Cobos, José Miguel, 285  
 Cockcroft, Wilfred, 268, 521, 522  
 Cocker, Edward, 271, 438, 440, 441, 446  
 Cohen, Patricia Cline, 176, 179, 325, 446, 447, 532, 567  
 Cohn, Bernard S., 376, 377  
 Colburn, Warren, 446, 447, 454, 529, 532, 533  
 Colebrooke, H.T., 75, 378  
 Coleman, A. John, 353  
 Coleman, Robert Jr., 529, 573  
 Comberousse, Charles de, 288, 482, 533  
 Combette, Eugène-Charles, 346, 533  
 Comenius, Jan Amos, 438, 442, 446, 454  
 Comte, Auguste, 348, 349, 509  
 Conan Doyle, Arthur, 16  
 Condette, Jean-François, 591  
 Condillac, Etienne Bonnot de, 478  
 Condorcet, Nicolas de Caritat, 444  
 Cong Xiaoping, 164  
 Constant, Benjamin, 348, 509  
 Coolidge, Julian Lowell, 482  
 Cooper, Barry, 268, 452  
 Coppino, Michele, 210–212, 497  
 Coqueiro, João Antônio, 465  
 Corbalán, Manuel de Salas, 340  
 Cornelius Nepos, 247  
 Corrêa, Rosa Lidia Teixeira, 351  
 Cortázar, Juan, 288  
 Cortéz, Hernán, 189, 190  
 Cossentino, Jacqueline, 576  
 Costa, Gláucia Loureiro da, 336, 337, 344–346, 349  
 Costa, Letícia Maria Ferreira da, 353  
 Costabel, Pierre, 137  
 Couchoud, Sylvia, 37  
 Courçon, Robert de, 116  
 Cousin, J.A. [Jacques-Antoine-Joseph], 292  
 Coxford, Arthur, 4, 328, 532  
 Craig, W.J., 177, 178  
 Craik, Alex D., 535  
 Craik, Henry, 274  
 Crawford, D.H., 278, 330  
 Credaro, Luigi, 218  
 Crelle, August Leopold, 545, 581, 582  
 Cremin, Lawrence, 176, 177  
 Cremona, Luigi, 114, 117, 210–214, 216, 219, 479, 480  
 Cribiore, Raffaella, 44–46  
 Croce, Benedetto, 216, 220  
 Crosswhite, F.J., 450  
 Crozet, Pascal, 411, 478  
 Cruickshank, M., 273  
 Cruz, Nicolás, 342–344  
 Cui Chaoqing, 364  
 Cui Jianqin, 81  
 Cuisenaire, Georges, 576  
 Cullen, Christopher, 57, 81

Cuomo, Serafina, 41, 49  
 Curtis, S.J., 266  
 Cutler, Timothy, 183

**D**

Dahlin, Johan, 3  
 Dainville, François de, 113, 474  
 d'Alembert, Jean le Rond, 441, 461, 462, 496  
 D'Ambrosio, Ubiratan, 175, 186–194, 453, 560  
 Damjanović, Vasilije, 145  
 Damlamian, Alain, 516  
 Danilov, Mikhail V., 306  
 Darboux, Jean Gaston, 498, 504  
 Darius, 37  
 Dassié, Bruno Alves, 191, 193, 337, 341, 342, 347, 352, 355  
 Dauben, Joseph W., 57, 175–185, 324, 361–375  
 Davidov, Avgust, 17, 314  
 Davidson, John, 274  
 Davidson, Patricia S., 576  
 Davies, Charles, 325, 478, 527, 533, 567, 573  
 Davis, Jeffrey C., 398, 399  
 Davis Jr., O.L., 330  
 Davis, Robert B., 330  
 Day, Jeremiah, 184  
 Dechalles, Millet, 474  
 Decroly, Jean-Ovide, 296  
 Dedekind, Richard, 347, 504, 507  
 Dekhoda, 'Alī Akbar, 98  
 Delattre, Joëlle, 42  
 Delessert, André, 559  
 Delisle, Jean-Nicolas, 181  
 Delmas, Marius, 420, 421  
 Delnero, Paul, 31  
 Delon, Fanny Ch., 349  
 Delon, M., 349  
 Demana, Franklin, 572  
 D'Enfert, Renaud, 229, 231, 234, 236, 238  
 Deng Xiaoping, 362  
 Denifle, H., 117, 118  
 Depman, Ivan Ya., 313  
 Derda, Tomasz, 42, 43  
 Derzhavin, Gavriil R., 306–308  
 des Rotours, Robert, 55, 59–63  
 Desboves, M., 482  
 Descartes, René, 460, 461, 473, 475–478, 494, 574  
 Desforge, Julien, 556, 586  
 Dewey, John, 224, 328, 329, 350, 352, 366, 448, 450, 454, 487–488  
 Dharampal, 376  
 Dhombres, Jean, 529, 545  
 Dhuoda, 111  
 Díaz, Porfirio, 351  
 Dienes, Zoltan P., 264, 298, 355, 530, 576  
 Diesterweg, Adolph, 443  
 Dieudonné, Jean, 449, 451, 469, 486, 508, 555  
 Dilke, Oswald A.W., 40  
 Dilworth, Thomas, 180, 532, 533  
 Ding Fubao, 364

Ding Shisun, 367, 369, 374  
 Ding Xiaoping, 374  
 Diophantus of Alexandria, 460  
 Djebbar, Ahmed, 90, 91, 96, 99, 104, 474  
 Doar, Ashley K., 531, 533  
 Dobb, Maurice, 188  
 Dobbs, W.J., 265  
 Dodson, Michael S., 377  
 Doku, Philip A., 393  
 Dolciani, Mary P., 567  
 Dold-Samplonius, Yvonne, 96  
 Dolk, Maarten L.A.M., 388  
 Domeyko, Ignacio, 344, 347, 355  
 Domingo Navas Spínola, 189, 342  
 Donald, Aïda DiPace, 528  
 Donald, David, 528  
 Dong Quan, 62  
 Donoghue, Eileen Frances, 328, 329, 586, 590  
 Dorandi, Tiziano, 40  
 Dorier, Jean-Luc, 486  
 Dorner, Adolf, 250  
 Dostyan, Irina S., 144  
 D'Ovidio, Enrico, 214, 216, 485  
 Drago, Luiz Pedro, 464, 465  
 Dufailly, Jules, 346, 481  
 Duhamel, Jean-Marie, 214  
 Duke of Zhou. *See* Zhou gong  
 Dulles, John Foster, 21  
 Dunham, William, 461  
 Dupin, Pierre, 206  
 Durell, 385  
 Duruy, Victor, 231  
 Dwivedi, Sudhākar, 378, 379, 381  
 Dyck, Walther von, 545  
 Dzhurinsky, Alexander N., 309, 310

**E**

Echeandía, Manuel María, 343  
 Edmonds, Franklin Spencer, 509  
 Edward VI, 258  
 Ehrhardt, Caroline, 230  
 Elizabeth I, 136  
 Ellerton, Nerrida F., 177, 178, 324, 325, 446, 526, 531, 537, 567  
 Elman, Benjamin A., 157  
 Enfield, William, 184, 527  
 Enriques, Federigo, 215, 219, 220, 222, 223, 506, 507  
 Enros, Philip C., 535  
 Euclid, 38–42, 46, 79, 86, 88, 89, 92, 94, 96–98, 102, 103, 110, 111, 114, 115, 118, 135, 141, 144, 159, 166, 180, 185, 191, 211–214, 232, 259–261, 270, 271, 291, 325, 341, 353, 372, 376, 378, 380, 383, 410, 432, 437, 461, 462, 466, 469, 473–483, 485, 494, 497, 500, 534, 547, 574  
 Eudoxus, 42, 473  
 Euler, Leonhard, 306–308, 313, 314, 339, 379, 440, 461  
 Evans, Gillian Rosemary, 112  
 Evtushevsky, Vasily, 313

Ewan, E.A., 279  
Eymond, Zephyrin, 416, 417

**F**

Faifofer, Aureliano, 214, 216  
Falloux, Frédéric Alfred Pierre, 234  
Fan Ky, 369  
Fano, Gino, 214  
Fargwarson, Henry, 304  
Farrar, John, 527, 528  
Farsi, Daryoush, 576  
Favory, François, 40, 49  
Fazzari, Gaetano, 217  
Fehr, Henri, 484, 498, 547–553, 586  
Fehr, Howard F., 330, 353, 559  
Feke, Jacqueline, 47  
Feldman, Daniel D., 534  
Félix, Lucienne, 449  
Feng Lisheng, 64, 65  
Feng Zuxun, 367  
Ferdinand II, 204  
Ferdinand VII, 286  
Fergola, Nicola, 204  
Ferguson, Adam, 272  
Fermat, Pierre de, 544  
Fernández Cardín, Joaquín María, 288  
Fernández, Mauro, 345  
Fernández Vallín, Acisclo, 288  
Fernández-Daza, Carmen, 285  
Ferraresi, Alessandra, 206  
Ferrari, Ludovico, 460  
Ferrari, Mario, 226  
Ferraro, Giovanni, 214  
Ferrer, Francisco, 487  
Ferro, Scipione del, 460  
Ferrucci, Antonio, 207  
Ferry, Jules, 345, 346, 423, 424  
Fey, James T., 330, 331, 453, 466, 528  
Fibonacci, Leonardo (Leonardo Pisano), 117, 119, 120, 433, 473  
Fierro, Maribel, 85, 99  
Figueiredo, Emmanuel de, 376  
Finn, M.E., 275  
Fiocca, Alessandra, 137, 202  
Firmicus Maternus, 48  
Fisch, Josef, 3  
Fischer, Barbara Bree, 527  
Fischer, Louis, 527  
Fish, Daniel W., 533  
Fisher, Sydney George, 184  
Fitzgerald, Anne, 372  
FitzSimons, Gail E., 520  
Florêncio Aires, Ana Paula, 207  
Flourmoy, Théodore, 549  
Folkerts, Menso, 111, 112, 114  
Fomenko, Anatoly, 16  
Fonseca, Maria Ângela Peter da, 349  
Fonvizin, D.I., 306  
Forbes, Eric G., 376

Formentany, Calisto Fernández, 288  
Fort, Ester de, 226  
Foster, Benjamin, 34  
Foucault, Michel, 14  
Fouchet, Christian, 237  
Foucquet, Jean-François, 156  
Fourcy, Lefebure de, 206  
Fowler, David, 39, 40, 43, 46  
Fraga, Ana, 465  
Franchis, Michele de, 215  
Francke, Hermann August, 138, 139  
Franco, Francisco, 283  
Francoeur, Louis Benjamin, 314  
François I, 131  
Franklin, Barry M., 448  
Franklin, Benjamin, 183, 184, 323, 324  
Franz I, 205  
Frattini, Giovanni, 484  
Frege, Gottlob, 440, 447  
Freilich, Julius, 567  
Freudenthal, Hans, 355, 449, 484, 488, 554, 556, 592  
Freyle, Juan Diez, 192  
Freyre, Gilberto, 337  
Friberg, Jöran, 29  
Fricke, Robert, 502  
Friedsam, Manfred, 56, 67, 69, 70  
Frieiro, Eduardo, 339  
Frisius, Gemma, 436  
Fröebel (Fröbel), Friedrich Wilhelm August, 329, 488  
Frontera, G., 347  
Frontinus Vitruvius, 49  
Frost, William Lee Frost, 177  
Fryer, John, 161, 163  
Fu Lanya, 163, 164  
Fu Zhongsun, 366  
Fujiwara Matsusaburō, 65  
Furinghetti, Fulvia, 209, 216, 449–451, 486, 503, 543–561  
Fürstenberg, Franz von, 142  
Fuss, Nicolas, 308, 314  
Fyfe, William Hamilton, 276, 278

**G**

Gabaglia, Eugênio Raja, 509  
Gabriel-Marie (Frère), 481  
Galakhov, Alexey D., 310, 311, 313  
Galen, 93, 115  
Galileo, Galilei, 135  
Galois, Évariste, 372  
Galperin, P.J., 254  
Gamboa, Francisco Javier, 194  
Ganelin, Sholom I., 312  
Gao Xirao, 384  
Gao Yun, 65  
García de Galdeano, Zoel, 289  
García, Juan Justo, 285, 286  
García, Martínez, 287  
García Rúa, Joaquín, 288, 290  
García, Victoria América López, 184, 336, 337, 339, 342

Gario, Paola, 219, 220  
 Garrett, A.W., 330  
 Gascoigne, John, 141, 535  
 Gattegno, Caleb, 264, 449, 486, 528  
 Gatto, Romano, 212, 213  
 Gazzaniga, Paolo, 215  
 Gazzaniga, Veronese, 215  
 Gelder, Jacob de, 584, 585  
 Gelmini, Mariastella, 225  
 Gentile, Giovanni, 220, 223  
 Genzwein, Ferenc, 592  
 George, Andrew R., 364, 365  
 Gerard of Cremona, 114, 117  
 Gerbert of Aurillac, 112  
 Gerdes, Paulus, 392, 393, 399–401  
 Gergonne, Joseph Diez, 545  
 Gericke, Helmuth, 111  
 Geuss, J.M., 440  
 Giacardi, Livia, 201, 226, 497, 503, 530, 544, 555  
 Gibson, Strickland, 118  
 Giglio, Donatella, 205  
 Giles, Geoffrey, 278  
 Gillard, D., 269  
 Gilmán, Antonio, 288  
 Gisbert, Lope, 288  
 Gispert, Hélène, 229–239, 251, 486, 495, 498, 555  
 Gjone, Gunnar, 450, 452  
 Glagolev, N.A., 17  
 Glasgow, R., 272, 273, 278  
 Glück, 305  
 Godfrey, Charles, 265, 483, 487, 501, 502, 504  
 Godoy, Ventura, 342  
 Goldbach, Christian, 373  
 Goldstein, Bernard, 477  
 Goldstein, Catherine, 39  
 Goldstine, Herman H., 572  
 Goldthwaite, Richard A., 120  
 Goldziher, Charles, 554  
 Golovin, Fyodor, 304  
 Golovin, Mikhail, 307  
 Gomes, Maria Laura Magalhães, 347, 349  
 Gómez Santa María, Agustín, 288  
 Gonella, 225  
 Gong Wenkai, 365  
 González-Astudillo, María T., 464, 466  
 Gooday, Graeme J.N., 571  
 Göransson, Edvard, 136  
 Gorbachev, M.S., 319  
 Gorceix, Claude Henri, 347, 355  
 Gordon, A., 325  
 Götting, Eduard, 249, 501, 504  
 Gouzévitch, Dmitri, 571  
 Gouzévitch, Irina I., 571  
 Grabiner, Judith, 15, 325  
 Grabmann, Martin, 115, 117  
 Graeber, A.O., 330, 331  
 Graf, K.D., 12  
 Grandi, Guido, 206  
 Grasset, Daniel, 417  
 Grattan-Guinness, Ivor, 20, 479, 495

Gravesande, Willem's, 180, 185  
 Gray, Jeremy J., 548  
 Green, H. Arnold, 407, 412  
 Green, Thomas, 377  
 Greenhill, Alfred George, 550, 551  
 Greenwood, Isaac, 178, 180  
 Gregory VII, 16  
 Gregory, David, 270  
 Gregory, James, 270  
 Grévy, Auguste, 498  
 Greyson, D.M., 325  
 Griffiths, Hubert Brian, 267, 268  
 Grinberg, Eric L., 570  
 Grosse, Hugo, 3, 437, 438  
 Grube, August Wilhelm, 313  
 Grugeon, Brigitte, 467  
 Grundel, Friedrich, 4  
 Grüner, Gustav, 517, 518  
 Guerraggio, Angelo, 222  
 Guillaume, James, 143  
 Guillaumin, Jean-Yves, 49  
 Guilmin, Charles M.A., 418, 419  
 Guim, 346  
 Guimaraes, Henrique Manuel, 459–471  
 Guimaraes, Manauel Ferreira de Araújo, 339, 340  
 Guizot, François, 230, 231, 442, 444  
 Günther, Siegmund, 3, 475  
 Guo Jinhai, 368, 369  
 Guo Shirong, 56  
 Guo Shoujing, 69  
 Guo Shuchun, 67, 68  
 Gur'ev, Semyon, 312, 313  
 Gurevich, Yakov, 19  
 Gussi, João Carlos, 341  
 Gustav II Adolf, 136  
 Gutas, Dimitri, 89, 94  
 Guzmán, Miguel de, 560  
 Gvirtz, Silvana, 349  
 Gwalleuk, 64  
 Gwisil Jipsa, 64

## H

Ḥabash al-Ḥāsib, 94  
 Habib, S. Irfan, 379  
 Habig, Marion A, 190  
 Hachette, Jean, 204  
 Hadi, Sutarto, 388  
 Hadot, Ilsetraut, 39, 47  
 Hadot, Pierre,  
 Hadow, William Henry, 266, 267  
 Hagman, Jan L., 157  
 Haidar, Maria de Lourdes Mariotto, 349  
 Hall, G.S., 329  
 Hall, H.S., 385  
 Hall, Nigel, 530  
 Hallewell, Laurence, 339  
 Halmos, Mária, 21  
 Halsted, George Bruce, 485, 574  
 Hamilton, R., 271

- Hammack, F.M., 325  
 Hammerstein, Notker, 142  
 Han Yan, 62  
 Hansen, Hans Christian, 445, 448  
 Hardy, Godfrey Harold, 262, 381  
 Harries, T., 265  
 Hart, 574  
 Hart, Clara Avis, 534  
 Hart, Roger, 156  
 Hart, Walter W., 528  
 Hartley, D., 279  
 Harvard, John, 184  
 Harvey, H.C., 327  
 Haskins, Charles Homer, 113  
 Hassard, John, 337  
 Hatami, Reza, 441  
 Hatton, Edward, 438  
 Hawking, Stephen, 460  
 Hawkins, John, 438  
 Hayhoe, Ruth, 374  
 Hayward, James, 478  
 Hazon, Filippo, 205  
 He Chongli, 364  
 He Pingzi, 69  
 Heath, Peter, 94  
 Hecker, Johann Julius, 139  
 Heckscher, Eli Filip, 188  
 Hedrick, Earl Raymond, 586  
 Heegard, Paul, 586  
 Hegedus, Stephan, 471  
 Heilman, E., 329  
 Hélayel, Josiane, 14  
 Héloïse, 113  
 Hémer, Coirentin, 476  
 Henri IV, 132, 135  
 Henrichsen, 245  
 Henrici, Julius, 479, 483, 484  
 Henry VIII, 136, 258, 269  
 Herbart, Johann Friedrich, 345  
 Herbst, Jürgen, 190  
 Herbst, Patricio, 534  
 Hermite, Charles, 545  
 Hero (Heron), 42, 49, 93, 274, 473, 474  
 Herschel, William, 379  
 Herzen, Alexander, 15, 18  
 Higgins, Steve, 373  
 Hilbert, David, 367, 485  
 Hill, Thomas, 533, 573  
 Hilprecht, Hermann V., 32  
 Hilsenrath, Joseph, 574  
 Hindenburg, Carl Friedrich, 496  
 Hinrichs, Focke T., 49  
 Hippocrates of Chios, 39  
 Hirst, Thomas A., 482  
 Hirstein, James J., 469  
 Hitler, Adolf, 283  
 Ho Chi Minh, 386  
 Hobart, Michael E., 566  
 Hobsbawm, Eric J., 336  
 Hobson, Ernest W., 365  
 Hodder, James, 178  
 Hodgins, J.G., 323  
 Hodgson, Bernard R., 556  
 Hoe, John, 161, 169  
 Hogendijk, Jan P., 92  
 Hollis, Thomas, 178, 179  
 Holmes, Sherlock, 16  
 Hon, Giora, 477  
 Hoogland, Kees, 388  
 Hôpital, Guillaume de l', 495  
 Horiuchi, Annick, 153–155, 166–172  
 Hormigón, Mariano, 287, 289, 343  
 Horn, P., 260, 262  
 Horng Wann-Sheng, 57, 161  
 Horst Nowacki, 122  
 Houel (Hoiël), Jules, 212, 484  
 Howard, A.C., 325, 326, 446, 447  
 Howson, Albert Geoffrey, 4, 257–269, 278, 431, 444, 452, 474, 475, 483, 487, 502, 503, 508, 510, 549, 551, 585, 592  
 Hoyles, Celia, 522  
 Høyrup, Jens, 109–121, 433, 452, 459  
 Hu Kunsheng (Kuen-sen), 369  
 Hu Mingfu, 367  
 Hua Hengfang, 161  
 Hua Luogeng (Loo-Keng), 367, 369, 371, 372  
 Hucker, Charles O., 59–61, 63, 68, 69  
 Hudelot (Capitaine Anatole), 416  
 Hudson, Henry, 176  
 Huizinga, Johan, 11  
 Hulin, Nicole, 233  
 Hull, Gillian., 183  
 Humbert, Georges, 346  
 Humboldt, Alexander von, 242  
 Humboldt, Wilhelm von, 496  
 Hume, David, 272  
 Humes, W.M., 275  
 Hunter, S. L., 269  
 Ḥusayn (General), 406  
 Ḥusayn Pasha, 406  
 Hussain, Faheem, 383  
 Hutton, Charles, 377, 379, 533  
 Hykes, J.R., 163
- I**
- Ibn ‘Āshūr, Muḥammad Ṭāhir, 412, 413  
 Ibn ‘Īsā, Wanīs, 418  
 Ibn Abī al-Ḍiyāf, Aḥmad, 406, 414  
 Ibn Abī Uṣaybi‘a, 95  
 Ibn Abī Yaḥyā, 90, 95  
 Ibn al-Akfānī, Muḥammad b. Ibrāhīm, 93, 95  
 Ibn al-Bannā’ al-Marrākushī, Abī l-‘Abbās Aḥmad, 90, 91, 97–99, 103, 410  
 Ibn al-Hā'im, Shihāb al-Dīn, 97, 410, 412  
 Ibn al-Haytham, 86  
 Ibn al-‘Ibrī, Abū l-Faraj, 96  
 Ibn al-Majdī, 96, 102  
 Ibn al-Nadīm, 92  
 Ibn al-Qifṭī, 95



Ibn al-Yāsamin, Abū Muḥammad, 90, 97, 99, 103  
 Ibn Ghāzī al-Miknāsī, Muḥammad, 410  
 Ibn Shalwāsh, Muḥammad b. Qāsim, 99  
 Ibn Shaykh al-Kabayī, Abū ‘Abdallāh Muḥammad,  
 97, 98  
 Ibn Sīnā, 88–94, 98  
 Ibn Taymiyya, Shihāb al-Dīn, 97  
 Ibn Taymiyya, Taqī al-Dīn, 97  
 Ickstatt, Adam von, 139  
 Ihsanoğlu, Ekmeledin, 87  
 Iliovici, Guy, 586  
 Inhelder, Bärbel, 450, 488  
 Ishāq b. Ḥunayn, 102, 103  
 Isidore of Seville, 474  
 Iskander, Mohamed, 415  
 Isocrates, 40, 48  
 Isoda, Masami, 557  
 Israel, John, 369  
 Ivan the Terrible, 147–148  
 Izák, A., 324  
 Izz al-Dīn al-Ḍarīr, 96

**J**

Jackson, Lambert L., 4, 328, 533  
 Jacobsen, Ed, 543, 557, 560  
 Jacqueline Hamesse, 38  
 Ja‘far b. al-Muktafī, 84  
 Jai Singh, 79, 376  
 Jambhekar, 381  
 Jami, Catherine, 156  
 Jänicke, Eduard, 3, 435–437, 443  
 Jarvin, Linda, 576  
 Jáuregui, Ramón M. 576  
 Javed, Syed H., 520  
 Jefferson, Thomas, 179, 183  
 Jeffrey, Francis, 527  
 Jeronnez, Louis, 576  
 Jervis, George Ritso, 378  
 Jezierski, Dieter von, 571  
 Jiang Lifu, 165  
 Jiang Zehan (Kiang Tsai-han), 369  
 Jílek, Jubor, 190, 339  
 João III, 461  
 Jochi Shigeru, 57  
 Johnson, David C., 556  
 Johnson, Elsie Parker, 576  
 Joiner, Brian L., 570  
 Jomini, Baron Antoine-Henri de, 415  
 Jones, Alexander, 43, 47, 48  
 Jones, Charles W., 110  
 Jones, Hugh, 182  
 Jones, Phillip S., 4, 328, 532  
 Jordan, Camille, 346, 545  
 Jordanus de Nemore, 117  
 Joseph II, 141  
 Jovellanos, Gaspar Melchor de, 286  
 Juárez, Benito, 344  
 Jushkevich, A.P., 4  
 Justinian, 115

**K**

Kaestner, Abraham Gotthelf. *See* Kästner, Abraham  
 Gotthelf  
 Kagan, Richard L., 284  
 Kahane, Jean-Pierre, 503  
 Kahn, Pierre, 236, 238  
 Kallas, Rudolf Gottfried, 446  
 Kamens, D.H., 324  
 Kandel, I.L., 327  
 Kangan, Myer, 519  
 Kangxi, 154, 156  
 Kanroku. *See* Gwalleuk  
 Kapterev, Petr F., 143, 144, 146, 147, 309  
 Kapur, J.N., 380–383  
 Kaput, James J., 471  
 Karam, P. Andrew, 526  
 Karamata, Jovan, 586  
 Karivieri, Arja, 43  
 Karkare, G.V., 381  
 Karoui, Mohamed El, 416, 420  
 Karp, Alexander, 5, 9–23, 129, 143–149, 303–320,  
 391–393, 398–402, 453, 454, 508–509, 528, 529,  
 531, 532, 536, 584, 589, 592  
 Karpinski, Louis, 178  
 Karshmer, Arthur, 576  
 Kartashev, Anton.V., 147, 148  
 Kastanis, Iason, 145, 478  
 Kastanis, Nikos, 145, 478  
 Kaster, Robert A, 43–46  
 Kästner, Abraham Gotthelf, 440, 475  
 Katz, Victor J., 434, 437, 453, 494  
 Kawada, Yukiyoshi, 558  
 Kawahara Hideki, 169  
 Ke Zhao (Ko Chao), 369  
 Keitel (Keitel-Kreidt), Christine, 252, 592  
 Kellaway, Francis William, 591  
 Keller, Agathe, 55, 70–79  
 Kelley, Brooks Mather, 183–185  
 Kelly, Brendan, 572  
 Kemeny, John G., 569  
 Kennedy, John F., 353  
 Kestere, Iveta, 446  
 Keyser, R., 446  
 Khaing Khaing Aye, 386  
 Kharlampovich, Konstantin V., 148  
 Khayr al-Dīn al-Tūnisī, also Khéreddine, 405–408, 410,  
 415–420, 427  
 Khazrajī, Ḍiyā’ al-Dīn al-, 410, 411  
 Khuzwayo, Herbert Bhekumusa, 6, 401  
 Kidwell, Peggy Aldrich, 16, 325, 528, 532, 566–568,  
 571–576  
 Kieran, Carolyn, 328, 331  
 Kieren, T., 329  
 Kikuchi Dairoku, 364  
 Kilpatrick, Jeremy, 5, 323–332, 436, 446, 448, 467, 468,  
 554, 559  
 Kilpatrick, William Heard, 531, 576, 589  
 Kim Yong-Guk, 64  
 Kim Yong-Woon, 64  
 King, Alexander, 591

- King, David A., 100  
 Kink, Rudolf, 118, 119  
 Kirik Novgorodets, 144  
 Kiselev, Andrey, 14, 17, 312–314, 317, 320  
 Kishitsu Shushi. *See* Gwisil Jipsa  
 Kiyohara Natsuno, 80  
 Klebs, Arnold C., 118  
 Klein, Felix, 3, 4, 215, 218, 219, 248–250, 252, 349, 352, 366, 467, 468, 483, 484, 486, 497, 499–505, 507, 510, 545, 546, 550–552, 575, 581  
 Kliebard, Herbert M., 448  
 Klimm, J.A., 141  
 Knight, Alan, 351  
 Knorr, Wilbur R., 41  
 Knox, H.M., 269, 273  
 Knox, John, 269  
 Kolmogorov, Andrey N., 254, 318–320  
 Kolyagin, Yury M., 21  
 Kolybanova, Kamila B., 149  
 Konstanty Ostrogski, 147  
 Köppen, Friedrich Th., 112  
 Korgaonkar, 381  
 Kostenko, I.P., 10  
 Kotel'nikov, Semyon, 307  
 Kothari, D.S., 382  
 Kovalevsky, Ye.P., 311  
 Krayner, Albert, 135  
 Kreutz, Lúcio, 348, 349  
 Kruppa, Erwin, 586  
 Kruze, Aida, 446  
 Krygowska, Anna Zofia, 555  
 Kulakovsky, Platon A., 145  
 Kupfer, Karl, 313  
 Kurbatov, Alexey, 304  
 Kurbsky, Andrey, 147, 148  
 Kurganov, Nikolay, 307  
 Kurtz, Thomas E., 569  
 Kuzin, Nikolay P., 315, 316  
 Kwallük. *See* Gwalleuk  
 Kwisil Chipsa. *See* Gwisil Jipsa
- L**  
 la Chalotais, Louis-René de Caradec de, 142  
 Labajo, Alfredo Rodríguez, 290  
 Labarca, Amanda, 337, 340, 343  
 LaCaille, Nicolas-Louis de, 145  
 Lacaíta, Carlo G., 210  
 Lacroix, Sylvestre-François, 138, 206, 230, 288, 292, 314, 339, 340, 342, 343, 346, 463, 464, 476–478, 481, 529, 583  
 Lagrange, Joseph Louis, 204, 292, 340, 496–498, 504, 508  
 Laguardia, Rafael, 354  
 Laing, D., 269  
 Laisant, Charles-Ange, 480, 487, 545–549  
 Lam Lay Yong, 67, 69  
 Lamandé, Pierre, 548  
 Lamé, Gabriel, 481  
 Lamrabet, Driss, 99  
 Lamy, Bernard, 137, 476  
 Lamy, Jérôme, 474  
 Lancaster, Joseph, 337, 338, 345, 350, 355, 530, 533  
 Lanuza, Francisco Marcos de, 290  
 Lasram, Mohamed, 410, 413, 421  
 Laumann, Julius, 4  
 Laurent, Hermann, 346, 559  
 Lavoie, P., 324, 329  
 Lawrence, Snezana, 145  
 Lazzeri, Giulio, 214, 216, 485  
 Le Fevre, Tanaquil, 182  
 Lebedev, 306  
 Lebossé, Camille, 476  
 Leder, G.C., 12  
 Lee C.D., 371  
 Lee, P.Y., 361, 384–388  
 Lee, Thomas Hung-Chi, 56, 58, 60, 62, 63, 66–69  
 Legendre, Adrien-Marie, 206, 212, 288, 292, 314, 339, 464, 477, 478, 482, 547  
 Lehto, Olli, 545, 558  
 Leibniz, Gottfried Wilhelm, 493, 494, 496, 498, 504, 508, 572  
 Leitão, Henrique, 137  
 Lelu, Lucien, 422  
 Lemay, Richard, 118  
 Leme da Silva, Maria Célia, 527  
 Lemoine, Émile, 482, 545, 546, 548  
 Lenfant, Agnès, 467  
 Leo XII, 204  
 León de Garavito, Ignacio, 193  
 Leonardo Pisano. *See* Fibonacci  
 Leontjev, A.N., 254  
 Leopold II, 205  
 Lermoult, Alain, 40  
 Leroy, Chares-François-Antoine, 340, 346  
 Lessale, Frères de, 465  
 Leung, Frederick. K.S., 12  
 Lewis, W.J., 163  
 Ley, Franz, 582  
 Leyssenne, Pierre, 346  
 L'Huilier, Simon, 142  
 Li Chunfeng, 58–60  
 Li Di, 64, 65  
 Li Ji, 57, 60  
 Li Junxiu, 56, 59, 61, 63–67, 69, 70  
 Li Shangzhi, 158, 159, 161, 373  
 Li Shanlan, 159, 161, 162  
 Li Shaokuan, 373  
 Li Wenlin, 69  
 Li Yan, 56, 59, 63, 65, 70  
 Li Zhaohua, 363, 364  
 Li Ziyang. *See* Li Yan  
 Liao Shantao, 370  
 Libbrecht, Ulrich, 63  
 Libois, Paul, 486  
 Lichnérowicz, André, 238, 239, 449, 486, 555, 557, 559  
 Lichtenberger, Wayne W., 569  
 Liendo y Goicochea, José Antonio, 193  
 Lietzmann, Walther, 4, 484, 550, 586  
 Liévano, Indalécio, 347  
 Likhud, 147

Lim-Teo, S.K., 387, 388  
 Lin Cang-Yi, 57  
 Linchevsky, M., 148  
 Lindert, P.H., 325  
 Lindgren, Uta., 113  
 Lineros, González, 346  
 Liouville, Joseph, 545  
 Lista y Aragón, Alberto, 287  
 Litvinov, Leonid F., 315, 316  
 Liu Caonan, 57  
 Liu Hui, 57, 59, 62, 158  
 Liu Jinnian, 369  
 Liu Xu, 79  
 Lloyd, Geoffrey E.R., 41  
 Lobachevsky, Nikolay I., 22, 314  
 Locke, John, 138  
 Lomonosov, Mikhail V., 12, 307, 320  
 Lonie, W.O., 273  
 López-Esteban, María, 464, 466  
 Lopez-Real, F.J., 12  
 Lorenz, Karl M., 347  
 Lorey, Wilhelm, 4  
 Loria, Gino, 214, 222, 550, 586  
 Lotbinière, Michel Chartier de, 181  
 Lotman, Yury M., 17  
 Louis Philippe I., 442  
 Louis XIV, 132  
 Loyola, Ignatius, 131  
 Lozier, Charles Ambroise, 340, 355  
 Luciano, Erika, 222  
 Lüneburg, Heinz, 433  
 Lupo, Maurizio, 204  
 Lurie, Yakov S., 19  
 Luther, Martin, 132, 437  
 Lützen, Jesper, 545  
 Lyatos, Ivan, 148  
 Lyon, Mary, 530, 556

## M

Ma Biao, 57  
 Ma Junwu, 364  
 Ma, Liping, 592  
 Mac Lane, Saunders, 372  
 Macaulay, Thomas Babington, 379  
 Mach, Ernst, 503  
 Machiavelli, Niccolò, 120  
 Machuel, Louis, 408, 419, 420  
 Maclaurin, Colin, 185, 270, 461  
 MacMillan, Margaret, 20, 22, 380  
 MacNaughton, K.F.C., 324  
 Madaus, George, 535  
 Mādhavācharya, 382  
 Maglathlin, Henry B., 533  
 Magnitsky, Leonty, 304, 306  
 Maḥmūd Pasha, 414  
 Mair, John, 271  
 Makdisi, George, 97  
 Malara, Nicolina, 226  
 Malaty, George, 559

Maldonado, Juan Pablo Conejeros, 340  
 Malone, Dumas, 183  
 Mann, Horace, 326, 345  
 Mannucci, Andrea, 222  
 Mansfield, D.E., 268  
 Maṣṣūr, Shafīq, 411  
 Manuel, Passos, 464  
 Mao Zedong (Tse-tung), 362  
 Marcelin, Jean, 340  
 Marcet, Jane, 526  
 Marchi, Maria Vittoria, 506  
 Marcolongo, Roberto, 223  
 Maria Theresa, 141, 145  
 Marie, Joseph-François, 496  
 Marín, Manuela, 90, 91  
 Marin, Ventura, 342  
 Marinus of Neapolis, 42  
 Markevich, Nikolay, 311  
 Markiewicz, Tomasz, 42, 43  
 Markushevich, A.I., 318  
 Marotte, Francisque, 550  
 Marques, Luiz Alberto de Souza, 349  
 Marrou, Henri-Iréné, 39, 43, 44  
 Martianus Capella, 111, 112, 114  
 Martin, Roger, 496  
 Martínez, Raúl Bolaños, 338  
 Martínez Reyes, Magally, 194  
 Marty, Paul, 415, 416  
 Martzloff, Jean-Claude, 60, 61  
 Maschietto, Michela, 574  
 Mateer, Calvin, 163  
 Mather, Cotton, 183  
 Mather, Increase, 183  
 Matos, José Manuel, 6, 283, 291–298  
 Matthias, Johann Andreas, 463  
 Matvievskaia, Galina P., 87, 88, 90, 91  
 Maximus the Greek, 146, 147  
 Maxwell, Kenneth, 192  
 Mazzotti, Massimo, 537  
 McConica, James, 131  
 McDonough, H.B., 532  
 McLellan, James, 328  
 McLeod, D.B., 331  
 McNair, John, 284  
 McNeil, Nicole, 576  
 Medici, 120  
 Medrano, Francisco Javier, 288  
 Mehmet ‘Ali Pasha, 408  
 Meigs, Josias, 184  
 Melanchthon, Philipp, 132, 437  
 Melville, Andrew, 269  
 Menaechmus, 42  
 Menelaos (Menelaus), 118, 266  
 Menghini, Marta, 214, 447, 473–489, 506  
 Meno, 40  
 Méray, Charles, 483–485  
 Mersenne, 544  
 Merzbach, Uta C., 447, 459–461, 529  
 Mettali, Hassouna, 420  
 Meyendorff, John, 144

- Meyer, J.W., 325  
 Mezynski, Karen, 509  
 Michaelius, Jonas, 176  
 Michalowicz, Karen D., 446  
 Michalowski, Piotr, 29  
 Mikami Yoshio, 170  
 Mikhail I (Romanov), 147  
 Mili, Mohamed Ezzeddine, 414  
 Miliukov, Pavel N., 303–306, 308–310, 312  
 Millán, Ana, 289  
 Miller, G.A., 364  
 Miller, Jen, 568  
 Mineur, Ad, 586  
 Minkowski, Christopher Z., 378  
 Miorim, Maria Ângela, 4, 341  
 Mitchison, R., 269  
 Miturich, P.V., 311  
 Miyamoto Tokichi, 365  
 Moacyr, Primitivo, 338  
 Mocnik, Franz [Ritter von], 482  
 Moctezuma, Lucía Martínez, 342  
 Mogila, Peter, 148  
 Moise, Edwin, 509  
 Moises, Alzenira Francisco de Azevedo, 338  
 Moisioudax, Iosipos, 145  
 Moktefi, Amirouche, 482  
 Mollerup, Johannes, 586  
 Momm, 64  
 Monaghan, E. Jennifer., 526  
 Monchicourt, Charles, 414  
 Moncrieffe, Edward, 159  
 Monge, Gaspard, 230, 266, 340, 479, 483, 575  
 Monroe, Paul, 366  
 Monroe, Walter S., 529, 532  
 Montcalm, Louis-Joseph de, 181  
 Montenegro, Juan Bautista, 343  
 Monterde, T., 288  
 Montessori, Maria, 263, 296, 352, 487–488, 576  
 Montgelas, Maximilian von, 241  
 Montt, Manuel, 342  
 Moon, Bob., 466  
 Moor, Ed W.A. de, 487  
 Moore, Clement Henry, 408, 417, 426  
 Moore, Eliakim Hastings, 329, 366, 467, 483, 530, 574  
 Moore, R. L., 530, 532  
 Moraes, Antonio Gabriel de, 349  
 Morales, José Rebollo, 287  
 Morales y Rodríguez, M., 342, 478  
 More, Thomas, 342  
 Morel, Thomas, 246  
 Moreno-Armella, Luis, 471  
 Moretti, Mauro, 226  
 Morgan, Augustus de, 260, 378, 379  
 Morgan, J., 278  
 Morison, Samuel Eliot, 179, 183  
 Mosquera, Julio, 353  
 Mosquito, Elisa, 465  
 Mourāli, Aḥmad al-, 415  
 Mourali, Mohamed, 416  
 Moyer, Ann E., 112  
 Moyon, Marc, 96, 104, 474  
 Muckle, J.T., 114  
 Muḥammad al-Ṣādiq Bey, 406, 415  
 Muḥammad Bey, 406  
 Muir, Thomas, 272  
 Müller, Johannes, 142, 435  
 Müller, Rainer A., 142  
 Munch, P.A., 121  
 Munévar, Francisco Sanabria, 337  
 Munn, James, 279  
 Muñoz H., José M., 190, 337, 340  
 Murdoch, John E., 117  
 Muromachi, 167  
 Murs, Jean de, 112, 474  
 Mussolini, Benito, 219, 220, 224, 283  
 Mutchler, Fred, 177, 178  
 Mutis, José Celestino, 193, 340  
 Myers, Shirley P., 466  
 Mzali, Abed, 422
- N**
- Nabonnand, Philippe, 549  
 Nagasawa Kamenosuke, 364  
 Nagel, J., 325  
 Naggi, Fabio, 202  
 Napier, John, 270, 438, 571  
 Napoleon, 143, 201–205, 229, 230, 241, 242, 244, 286, 292, 414, 444, 463, 496, 498, 571, 583, 587  
 Nāṣir Bey, 408  
 Nastasi, Pietro, 222  
 Naud, C., 548  
 Navier, Claude, 288  
 Nebres, Bienvenido F., 388, 558, 560  
 Neelley, J.H., 509  
 Neugebauer, Otto, 28, 35  
 Neves, Fátima Maria, 337, 338, 347  
 Neville, Eric Harold, 586  
 Newcastle (Duke of), 259  
 Newton, Isaac, 136, 179, 180, 185, 258, 466, 468, 493–496, 575  
 Niang, Souleymane, 559  
 Nicolas, Gaspar, 435  
 Nicolet, Jean Louis, 528  
 Nicoletti, Onorato, 223  
 Nicomachus (Nikomachos, Nicomachos) of Gerasa, 39, 41, 47, 94, 111, 144, 432  
 Niebla, Gilberto Guevara, 351  
 Nihon Gakushiin, 166  
 Nikolay I, 309–311  
 Nikolić, Aleksandar M., 143  
 Nikoltseva, N.F., 309, 311  
 Nizām al-Mulk, Abū 'Alī al-Ḥasan, 86  
 Noble, Charles Albert, 582  
 Nordgaard, Martin A., 509  
 Norwood, Cyril, 266  
 Noss, Richard, 522  
 Novi, Giovanni, 207  
 Novikoff, Alex J., 527  
 Nunes, Pedro, 460  
 Nykänen, Aatu, 4

**O**

Obolensky, Dimitri, 144  
 Odriozola, José de, 288  
 Ōgawa Toshitaka. *See* Ohkawa Toshitaka  
 Ogawa Yōichi, 158  
 O'Higgins, Bernardo, 338  
 Ohkawa Toshitaka, 57  
 Oke, 381  
 Oliveira, Cândido Baptista de, 342  
 Olivier, Théodore, 288  
 O'Malley, John, 181  
 Omel'chenko-Pavlenko, V., 311, 312  
 Opolot-Okurut, Charles, 391–397  
 Opyene Eluk, Patrick, 394  
 Oreopoulos, P., 325  
 Oresme, Nicole, 117, 118  
 Orlando, 217  
 Orme, N., 258  
 Ortiz, Eduardo, 548  
 Osborn, George A., 365  
 Osborne, A.R., 450  
 Osgood, W.F., 327  
 O'Shea, T., 330, 331  
 Osorio, Juan de Porres, 192  
 Ospina, Luis Mariano, 338  
 Ossendrijver, Mathieu, 36  
 Ostrogradsky, Mikhail, 314  
 Otero, Mario H., 545  
 Ottoni, Cristiano Benedetto, 465  
 Ou Yan, 57, 58

**P**

Pacioli, Luca., 120  
 Padilla, Juan José de, 343  
 Padoa, Alessandro, 223  
 Paetow, Louis John, 116  
 Pagano, Emanule, 202  
 Pahl, Franz, 4  
 Palladino, Franco, 210  
 Palma, Helena, 296  
 Pandrosion, 41  
 Paolis, Riccardo de, 214, 216, 485  
 Papadopoulos, Ioannis, 145  
 Papança, Filipe, 293  
 Pappus of Alexandria, 41  
 Papy, Frédérique, 355  
 Papy, Georges, 486  
 Paradinas, Jesus, 135  
 Pardała, Antoni, 138, 142  
 Pardies, Ignace Gaston, 474  
 Parker, Francis Wayland, 350  
 Parker, John, 530, 532  
 Paroz, Jules, 349  
 Parr, H.E., 395  
 Parshall, Karen Hunger, 175–185, 324, 545  
 Pascal, Blaise, 544  
 Pasch, Moritz, 215  
 Pastor, Julio Rey, 289, 290  
 Patergnani, Elisa, 206

Paterson, H.M., 275  
 Patrucco, Carlo Evasio, 202  
 Paul, Matthias, 483  
 Paulsen, Friedrich, 133, 245, 246  
 Paz, Pedro, 192  
 Peabody, Andrew, 527  
 Peano, Giuseppe, 215, 218, 222  
 Pearlstein, Steven, 565  
 Peaslee, A.L., 325  
 Peaucellier, 574  
 Pecham, 118  
 Pedersen, Olaf, 115  
 Pehkonen, E., 12  
 Peng Qingpeng, 364  
 Penn, William, 177  
 Peppler Barry, Ulrika, 557  
 Pepys, Samuel, 438  
 Peregrín, Bartolomé, 288  
 Perl, Teri, 448  
 Perna Alfredo, 222, 586  
 Perry, John, 262, 468, 483, 501, 502, 530, 550, 571, 574  
 Peset, José Luis José, 284  
 Peset, Mariano, 284  
 Peshkin, Alan, 401  
 Pestalozzi, Johann Heinrich, 326, 329, 442–444, 446–448, 454, 529, 573, 575  
 Peter I, 303, 304, 312, 320  
 Petersen, Julius, 482  
 Petzensteiner, Heinrich, 435  
 Peurbach, 117  
 Philip, H.L., 275  
 Philip II, 283  
 Philoponus, John, 45  
 Phudkey, Govind Gangadhar, 378  
 Phudkey, Gungadhar Shastri, 378  
 Piaget, Jean, 236, 264, 355, 449, 450, 454, 488, 576  
 Piaia, Gregorio, 202  
 Picatoste, Felipe, 288  
 Picht, Georg, 252  
 Pickering, John, 180  
 Pickering, Mary Orne, 180  
 Pickering, Timothy, 180  
 Pieri, Mario, 215  
 Pignatelli, F., 288  
 Pirenne, Henri, 119, 120  
 Pius VII, 204  
 Pizarro, Francisco, 189  
 Planudes, Maximus, 143, 144  
 Platner, Giacomo, 212  
 Plato, 42, 47, 48, 473  
 Playfair, John, 270, 527  
 Plutarch, 39  
 Pogodin, Mikhail, 311  
 Poincaré, Henri, 233, 234, 498, 545, 548  
 Poisson, Siméon Denis, 288  
 Poletayev, 306  
 Pollak, Henry, 15  
 Polonsky, Yakov, 528  
 Polya, George, 396

Polyakova, Tatiana S, 144, 146, 147, 303, 304, 307, 312–314  
 Poma de Ayala, Felipe Guaman, 188  
 Pombal, Sebastião José de Carvalho e Melo, 138, 142, 190, 192, 193, 291, 341  
 Pombo, Lino de, 346  
 Pombourcq, Pascal, 234  
 Pomeroy, Ralf, 478  
 Poncelet, Jean Victor, 571  
 Ponte, João-Pedro., 459–471  
 Pontryagin, L.S., 319  
 Portuondo, A., 288  
 Portuondo, J., 288  
 Pothier, Y., 329  
 Potvin, D., 325  
 Pouliot, Adrien, 328, 329  
 Pourjavady, Nasrollah, 98  
 Prentice, A.L., 323, 326  
 Prestet, Jean, 137, 461  
 Price, Michael H., 262, 574  
 Prieto, Iván Núñez, 336  
 Printits, Olaf., 446  
 Priscian, 115  
 Proclus of Lycia, 42  
 Prokopovich, Feofan, 148, 303  
 Proust, Christine, 27–51  
 Prudnikov, Vasily E., 4, 303, 312, 313  
 Psellos, 143  
 Ptahhoteb, 36  
 Ptolemy, 38, 40, 42, 43, 47, 48, 88, 89, 94, 115, 118, 376  
 Puig, Luis., 471  
 Puiggros, Adriana, 350  
 Putyanin, Ye.V., 311  
 Puzyrev, Fedor I, 315, 316

**Q**

Qābādū, Maḥmūd, 406, 415  
 Qadri, Ali, 416  
 Qalaṣādī, Abū l-Ḥasan ‘Alī b. Muḥammad al-, 88–91, 97, 99, 103, 410, 412  
 Qāzī-zāde al-Rūmī, 103, 410  
 Qian Baocong, 66  
 Qin Fen, 367  
 Quartararo, Anne T., 444  
 Queipo, Vicente Vazquez, 346  
 Quinn, Madge, 394, 395  
 Quintillianus, 46, 48  
 Quirós, A., 346

**R**

Ragan, G.A., 328  
 Ragep, F. Jamil, 86  
 Ragep, Sally P., 86  
 Raina, Dhruv, 361, 376–384  
 Rajab b. Ḥusayn, 98  
 Rama V, 385  
 Ramanujan, Srinivasa, 381  
 Ramée, Pierre de la. *See* Ramus, Petrus

Ramus, Petrus, 474, 475  
 Ranade, N.B., 381  
 Ranke, Leopold, 9  
 Rao, A. Narasinga, 382  
 Rash, Agnes M., 509  
 Rashdall, Hastings., 118  
 Rāshid (General Mohamed), 415  
 Rau, Heinz, 507  
 Ray, Joseph, 507  
 Razumovsky, Alexey K., 311  
 Reaton, Atanasio, 192  
 Rebière, Alphonse, 346  
 Rebollo y Morales, José, 287, 342  
 Recorde, Robert, 436, 575  
 Regiomontanus, 117, 435  
 Régnier, Jean-Claude, 571  
 Remillard, Janine, 12  
 Revuz, André, 592  
 Reyes, Raúl Cardiel, 338  
 Reyneau, Charles-René, 137  
 Reynolds, Leighton D., 38  
 Reys, R.E., 328  
 Ricci, Matteo, 159  
 Rice, Adrian C., 543, 550  
 Rich, R.W., 259, 262  
 Riché, Pierre, 110, 111  
 Richer, 112, 113  
 Rickey, V. Frederick, 478, 532, 535  
 Riegel, Jeffrey K., 57  
 Riemann, Bernhard, 575  
 Ries (Riese), Adam, 435, 436, 460  
 Ritter, Jim, 39  
 Rivard, Dominique-François, 135  
 Robbins, Edward Rutledge, 534  
 Robenstein, Clark, 185  
 Roberts, David Lindsay, 530, 565–576  
 Roberts, John, 190, 339  
 Robertson, D.W. Jr., 110  
 Robic, Marie-Claire, 233, 234  
 Robie, Thomas, 184  
 Robinson, 346  
 Robson, Eleanor, 16, 29, 31, 36, 525  
 Rocha, José Lourenço, 352  
 Rocha, José Monteiro da, 462  
 Rochberg, Francesca, 36  
 Rockinger, Ludwig, 119  
 Rodrigues, Elaine, 336  
 Rodrigues, José Honório, 336  
 Rodríguez Cruz, Agueda M., 190  
 Rodríguez, Diego, 190, 192  
 Roero, Clara Silvia, 222  
 Rogers, Leo, 257, 258, 269–279  
 Roguet, Charles, 481  
 Röhl, Emanuel, 556  
 Rollet, Laurent, 234  
 Rolo, Maria, 337, 341  
 Romano, Antonella, 474  
 Romera-Lebret, Pauline, 482  
 Romero, Fermín, 342  
 Romero y Serrano, Lucas María, 342

Roriczer, Mathes, 121  
 Rosenfeld, B.A., 87, 410  
 Rouché, Eugène, 288  
 Roulet, G., 329  
 Rousseau, Jean-Jacques, 138, 329, 478  
 Rovello y Morales, Jose, 478  
 Rowe, David E., 185  
 Rowlinson, Michael, 337  
 Roxo, Euclides, 352, 466  
 Rozenberg, Noah Bryan, 509  
 Rozenfel'd, Boris A. *See* Rosenfeld, B.A.  
 Ruffini, Paolo, 206  
 Rugiu, Antonio Santoni, 222  
 Ruiz, Ángel, 353, 354, 558  
 Rumovsky, Stepan, 307  
 Rüping, Heinrich, 505  
 Russo, Lucio, 136, 494  
 Rustum (General), 505  
 Ryan, T.A. Jr., 570

## S

Saavedra Alías, Inmaculada Arias de, 194  
 Sachs, Abraham J., 28, 35  
 Sacrobosco, 117, 118, 135, 192, 475  
 Saffray, Charles, 349  
 Saffrey, H.D., 42  
 Sahaidachny, Petro, 149  
 Sakade Yoshinobu, 158  
 Sakai Tadao, 158  
 Sakharov, 316  
 Salazar, António de Oliveira, 283  
 Salmon, George, 480  
 Salvado, Carmen, 192, 339  
 Samarqandī, Shams al-Dīn al-, 103  
 Sánchez, Clara Helena, 340, 341, 346, 347  
 Sandifer, Charles Edward, 494  
 Sani, Roberto, 204  
 Sannia, Achille, 214, 479, 485  
 Santaló, Luis, 354  
 Santos, Teresa, 465  
 Saraiva, Luis, 339  
 Sardesai, 381  
 Sarmiento, Domingo Faustino, 345, 350  
 Śāstri, Bāpu Deva, 378  
 Sauderson, Nicholas, 461  
 Sauri, Jean, 496  
 Sauvage, Martin, 30  
 Sawada Goichi, 364  
 Scarpis, Umberto, 211, 217  
 Schelbauer, Anaete Regina, 349  
 Schellbach, Karl Heinrich, 480  
 Scheubel, Johann, 474  
 Schiffman, Zachary S., 566  
 Schimmack, Rudolf, 4, 479, 480, 483  
 Schmid, Joseph, 443  
 Schmidt, Siegbert, 5  
 Schmitt, Hanno, 139  
 Schneewind, Sarah, 156  
 Schoenfeld, Alan H., 9, 11, 14, 15, 20

Schönbeck, Jürgen, 480, 483  
 Schöner, Christoph, 119  
 Schoner, J., 133  
 Schorling, Raleigh, 530  
 Schröder, Ebenhard, 435  
 Schroeter, 475  
 Schubring, Gert, 3–6, 10–13, 18, 129–143, 176, 206,  
 212, 229, 241–254, 328, 335, 349, 352, 391–393,  
 398–402, 425, 432, 437–440, 444, 453, 460–463,  
 477–479, 484, 494–497, 499, 500, 502, 503, 519,  
 545, 548, 550, 552, 554, 556, 566, 581–583, 587  
 Schugurensky, Daniel, 448  
 Schwab, Raymond, 377  
 Schwartz, Laurent, 559  
 Schwarz, Hermann Amandus, 354  
 Schweim, Lothar, 242  
 Scirocco, Alfonso, 202  
 Scopoli, Giovanni, 203, 205  
 Scoth, Roberto, 201–226  
 Scotland, J., 279  
 Scott, Charlotte Angas, 501  
 Seaton, E.T., 328  
 Sebastián, C., 288, 297  
 Segonds, A.P., 42  
 Segre, Corrado, 214  
 Seifert, Arno, 131, 133, 134, 139  
 Sejong, 69  
 Seki Takakazu, 155, 168, 169  
 Sella, Quintino, 206  
 Sembiring, Robert, 388  
 Sen, S.N., 376  
 Senchenko, N.I., 148  
 Seppala-Holzman, David, 454  
 Serrasqueiro, José Adelino, 465  
 Serret, Joseph-Alfred, 207, 288  
 Servais, Willy, 449, 451, 469, 486  
 Setati, Mamokgethi, 402, 560  
 Settembrini, Luigi, 204  
 Severi, Francesco, 214, 223  
 Seyfarth, Friedrich, 500  
 Seymour, Dale, 576  
 Sfar, Béchir, 413, 417–421  
 Shan Zun, 373  
 Shapin, Steven, 5  
 Shastri, Gangadhar, 378, 381  
 Shelby, Lon R., 121  
 Sheldon, Edward Austin, 349  
 Shell-Gellasch, Amy, 478, 532, 535  
 Shenzong, 66  
 Shibata, R., 571  
 Shipton, Clifford K, 180  
 Shirinsky-Shikhmatov, P.A., 311  
 Shishkov, A. S., 311  
 Shnider, Steve, 32  
 Shuard, Hilary, 591  
 Shulman, Lee S., 593  
 Shuvalov, I.I., 308  
 Shvartsburd, S.I., 319  
 Siang, K.T., 571  
 Şibṭ al-Māridīnī, Muḥammad, 411

- Siddons, Arthur Warry, 265, 483, 502, 504  
 Sidoli, Nathan, 47  
 Sieno, Simonetta di, 214  
 Sierra-Vázquez, Modesto, 464, 466  
 Sigler, Lawrence E., 433  
 Sigüenza y Góngora, Carlos de, 192  
 Sigurdson, S., 329  
 Silber, Kate, 443  
 Sillito, Geoffrey, 277  
 Silva, Circe Mary Silva da., 342, 347, 348, 509  
 Silva, Clovis Pereira da, 348  
 Silva, José Sebastião e, 297  
 Silva, Maria Beatriz Nizza da, 339  
 Silva, Otto de Alencar, 348  
 Sime, Mary, 488  
 Simms, K.W., 328  
 Simon L. Berman, 567  
 Simon, Max, 480  
 Simonov, Rem A., 144, 146  
 Simons, Lao, 479  
 Simplicius, 39  
 Simpson, Thomas, 461  
 Simson, Robert, 185  
 Sinclair, N., 324  
 Sinuhe, 37  
 Siraisi, Nancy G., 118  
 Sirk, Väino, 446  
 Siu, Man Keung, 56, 60, 61, 63, 483, 554  
 Sivin, Nathan, 69  
 Skazkin, Sergey D., 144  
 Skinner, B.F., 569  
 Slee, Peter, 535  
 Sluiter, Ineke, 40, 41  
 Small, William, 183  
 Smallwood, Mary Lovett, 535  
 Smid, Harm Jan, 5, 140, 579–593  
 Smith, Adam, 272  
 Smith, Barnard, 380  
 Smith, Charles, 364, 365  
 Smith, David Eugene, 192, 328, 483, 484, 487, 501, 508, 509, 550, 554, 571  
 Smith, Heather J., 568  
 Smith, Margaret S., 12  
 Smith, William, 185  
 Soares, Flávia dos Santos, 337, 342, 347  
 Solana, Fernando, 338  
 Solaro, Gabriella, 205  
 Soloviev, Sergey M., 146, 303–305  
 Sonnet, Hippolyte, 346, 509  
 Sorge, D.H., 509  
 Souissi, Mohamed, 99  
 Soullier, Etienne, 416  
 Sousa, Manuel de, 462  
 Souza, Rosa Fátima de, 348  
 Sowell, Evelyn J., 576  
 Speranza, Francesco, 226  
 Speusippus, 42  
 Speyer, Walther von, 112  
 Sraieb, Noureddine, 426  
 Stahl, William Harris, 111  
 Stalin, I.V., 17, 316–318, 320, 589  
 Stamper, Alva W., 328, 475, 482  
 Stanic, Georg Milan Alexander, 5, 331  
 Stanley, Julian C., 509  
 Starke, E.R., 3  
 Staudt, Karl Georg von, 213  
 Stedall, Jaqueline, 432, 438, 444, 445  
 Steele, John M, 36  
 Steen, Lynn Arthur, 373  
 Stefanova, Natalya, 584, 589  
 Stefánsson, Ólafur Stephensen, 441, 442  
 Steger, Hanns-Albert, 190  
 Stein, Mary Kay, 12  
 Steiner, Hans-Georg, 556  
 Steiner, Jacob, 213  
 Steiner, Rudolf, 263  
 Sterkens, Frans, 586  
 Stevens, F.H., 380  
 Stevin, Simon, 436, 437, 439  
 Stewart, Dugald, 527  
 Stiles, Ezra, 184  
 Stirling, James, 270  
 Stone, Marshall Harvey, 354, 450, 451, 486, 554, 555, 557–559, 561  
 Storey, William Kelleher, 526  
 Sträßer, Rudolf., 515–523  
 Strong, Nehemiah, 184  
 Strouhal, Eugen, 37  
 Struik, D. J., 324  
 Struve, Horst, 484  
 Sturm, Christopher, 475  
 Sturm, Charles François, 347  
 Sturm, Johannes, 131, 346  
 Su Buqing, 370  
 Su Chun, 373  
 Su Hui-Yu, 80  
 Su Jun-Hong, 80  
 Suat Khoh, Lim-Teo, 558  
 Suetus, Sigismund, 436, 437  
 Sun Guangyuan, 368  
 Sun Hongan, 81  
 Sun Peiqing, 81  
 Sun Xiaotian, 383  
 Sutherland, R., 265  
 Süvern, Johann Wilhelm, 242  
 Suvorov, Maxim, 145  
 Suydam, Marilyn, 388  
 Swenson, John A., 509  
 Swetz, Frank J., 365–367, 370, 371, 432–436, 441  
 Swineshead, Richard, 118  
 Sylvester II. *See* Gerbert of Aurillac  
 Sylvester, James Joseph, 261, 574  
 Syrianus, 42, 47  
 Szabat, Elżbieta., 42, 44–46  
 Szücs, A., 586
- T**
- Tacquet, André, 135, 475  
 Taḥsīn Bey  
 Taimina, Daina, 574  
 Takebe Katahiro, 155, 169



Talamo, Giuseppe, 209  
 Tambara, Elomar Antônio Callegaro, 349  
 Tanaka Toku, 364  
 Tannery, Jules, 498, 504, 576  
 Tannery, Paul, 113, 114  
 Tanret, Michel., 29  
 Tartaglia, Niccolo, 460  
 Tate, Thad W., 182  
 Taub, Liba C., 47  
 Taverne, Ernest de, 416  
 Taylor, Brook, 78, 243, 496, 500, 504  
 Taylor, E.H., 327  
 Taylor, E.R.G., 176, 258  
 Taylor, Jerome, 114  
 Tchebychev. *See* Chebyshev  
 Telford, Thomas, 272  
 Tenchi, 64  
 Tenji. *See* Tenchi  
 Terdimou, Maria, 145  
 Ter-Grigoryan-Demianiuk, N.E., 148  
 Terry, 346  
 Thābit b. Qurra, 88, 102, 103  
 Thackray, Arnold, 5  
 Theaetetus, 473  
 Thelin, John R., 535  
 Theodosios, 118  
 Théon, 43, 44, 48  
 Thibault, M., 478  
 Thomas-Lavernède, Joseph Esprit, 545  
 Thompson, D., 268  
 Thompson, James Westfall, 112  
 Thorndike, Edward L., 448  
 Thorndike, Lynn, 116, 118  
 Thureau-Dangin, François, 29  
 Thwaites, Bryan, 268  
 Tian Gang, 373  
 Tihon, Anne, 43, 48  
 Tjijuneliene, Ona, 446  
 Tilak, 381  
 Tillich, Ernst, 443, 444  
 Timaeus, 42  
 Timerding, H.E., 4  
 Tinney, Steve, 29, 33  
 Tishkin, Grigory A., 306  
 Titov, Fedor, 147, 149  
 Todd, John A., 555  
 Tolley, Kimberley, 532  
 Tolstoy, Dmitry, 22, 310  
 Toneatto, Lucio., 49  
 Tong Jianhua, 81  
 Törner, G., 12  
 Torres, Guillermo, 353  
 Torres, Silva, 339  
 Tosh, John, 526  
 Toth, G., 586  
 Touré, Saliou, 398, 399  
 Tournais, Étienne de, 115  
 Trabulse, Elias, 192  
 Trajano, Antônio, 349, 465  
 Tralles, Johann-Georg, 243, 581

Travaini, Lucia, 120  
 Travers, Kenneth J., 466  
 Treutlein, Peter, 479, 480, 483–485, 552  
 Tropfke, Johannes, 441  
 Trouche, Luc, 572  
 Tsifirkin, 306, 307, 320  
 Tsuruichi Hayashi, 364  
 Tu Kunhua, 364  
 Tucker, Louis Leonard, 183, 184  
 Tudor, Maria, 135  
 Tummers, Paul M.J.E., 117  
 Turgenev, I.S., 310  
 Türk, Wilhelm von, 443  
 Turner, Ivan Stewart, 586  
 Turner, Steven C., 529  
 Ṭūsī, Naṣīr al-Dīn al-, 86, 410  
 Twain, Mark, 20, 534  
 Tyack, David B., 567

## U

Ubaydallāh b. Sulaymān b. Wahb, 88  
 Ulivi, Elisabetta, 120  
 Ullman, Berthold L., 111  
 Ullmann, Philipp, 250  
 Unger, C.R., 121  
 Urcullu, José de, 346  
 Uvarov, Sergey, 310, 311

## V

Vailati, Giovanni, 218, 219, 503, 529  
 Valdemarin, Vera Tereza, 349  
 Valente, Wagner Rodrigues, 291–294, 347, 349, 350, 462, 464–466, 527  
 Vallejo, José Mariano, 288, 342  
 Vallières, Marc, 181  
 Vallin y Bustillo, de Giró y Miró de, 346  
 Van Amringe, J. Howard, 533  
 van de Vyver, 112  
 van der Waerden, Bartelt, 468  
 van Egmond, Warren, 433–435, 446  
 van Hiele, Pierre, 488, 489  
 van Hiele-Geldof, Dina, 489  
 Vanstiphout, Herman L.J., 29  
 Varga, Tamás, 21, 355  
 Vargas, E.A., 569  
 Vargas, Getulio, 352  
 Vargas, Julie A., 569  
 Vassiliev, Alexander V., 545  
 Veá, Fernando, 288, 289  
 Vechia, Aricle, 347  
 Velamazán, M<sup>a</sup> Ángeles, 287  
 Velazquez de León, Joaquin, 192  
 Veldhuis, Niek, 29–31  
 Venema, Pieter, 178  
 Venzo, Manola Ida, 204  
 Vera Cruz, Alonso de la, 192  
 Veronese, Giuseppe, 214, 215, 485  
 Verwoerd, Hendrik, 401

Vetter, Quido, 586  
 Vettius Valens, 48  
 Victor, Albis, 346  
 Victor, Stephen K., 121  
 Vidal, Diana Gonçalves, 338, 347, 348, 350  
 Vidal, Sánchez, 346  
 Viète, François, 460  
 Vignola, Bruno, 222  
 Villani, Giovanni, 119  
 Villedieu, Alexandre de, 117  
 Vinogradov, I.M., 319  
 Vintéjoux, Félix, 346  
 Vita, Vincenzo, 217, 497, 506  
 Vitrac, Bernard, 41, 47  
 Vitruvius, 39, 49, 50  
 Vitte, Sergey Iu., 311  
 Viviani, Vincenzo, 212  
 Vladimir (of Kiev), 144  
 Vogeli, Bruce R., 5, 530  
 Vogeli, Erich Daniel, 392  
 Volio, Julián, 345  
 Volkov, Alexei, 55–70  
 Volterra, Vito, 214  
 Vossen, Peter, 112  
 Vygotsky, L.S., 576

## W

Wagner, Ulrich, 435, 572  
 Waits, Bert K., 273  
 Walker, James, 273  
 Walker Stamper, Alva, 4, 475, 482  
 Walkingame, Francis, 445  
 Wall, Kate, 568  
 Wallis, John, 438  
 Walusinski, Gilbert, 558  
 Wang Feng, 375  
 Wang Hao, 369  
 Wang Jessica Ching-Sze, 366  
 Wang Jianpan, 373  
 Wang Renfu, 367  
 Wang Shan, 373  
 Wang Xianghao, 369  
 Wang Xianzhong (Hsien Chung), 369  
 Wang Xiaotong, 62  
 Wang Yongjiong, 364  
 Wang Yuan, 372  
 Wang Yusheng, 63  
 Ward, John, 180  
 Wardle, D., 259, 260, 262, 263  
 Warwick, Andrew, 258, 262, 535  
 Washburne, Carleton, 224  
 Washington, George, 180, 588  
 Wason, Robert P., 112  
 Watson, Foster, 4, 262, 268  
 Watt, James, 42, 272, 571, 573  
 Watts, Edward J., 42  
 Webber, Samuel, 180  
 Weber, Max, 11, 16  
 Wei Genren, 363–366

Wei Haitao, 373  
 Weierstrass, Karl, 582  
 Weinberg, Gregório, 189  
 Weinmeister, 507  
 Weinzeig, Avrum I., 466  
 Weisheipl, James A., 118  
 Wells, Webster, 528  
 Wentworth, George Albert, 366, 528, 567, 573  
 Wheatley, G.H., 509  
 Whitescarver, Keith, 576  
 Whyte, I.D., 272  
 Wieleitner, Heinrich, 242  
 Wiener, Hermann, 552  
 Wiese, Ludwig (von), 247  
 Wilkinson, Lancelot, 378  
 Williams, Elizabeth May, 592  
 Williams, Grace Alele, 402  
 Williams, Samuel, 180  
 Wilson, Bryan I., 393, 397  
 Wilson, D.K., 4, 269–271  
 Wilson, James Maurice, 212, 380, 482  
 Wilson, Nigel G., 38  
 Winch, David, 570  
 Winkelmann, Eduard, 118  
 Winthrop, John, 180, 181, 183  
 Wipszycka, Ewa, 42, 43  
 Wirkinger, H., 586  
 Witelo, 118  
 Witkam, Januarius Justus, 95  
 Wolfe, James, 181  
 Wolff, Christian, 193, 340, 461  
 Wolff, Georg, 266  
 Wolff, W., 244  
 Wong, Joseph, 55, 63–65  
 Wong, R. Bin, 14  
 Wood, Ruth, 568  
 Woodside, Alexander, 156  
 Woody, Thomas, 177  
 Wooton, William, 567  
 Wren, F.L., 532  
 Wright, A., 269, 270  
 Wright, David, 163  
 Wu Sihao, 375  
 Wu Wenjun (Wen-Tsün), 370  
 Wylie, Caitlin Donahue, 528

## X

Xie Chawei, 69  
 Xie Honglai, 364  
 Xie Humin, 373  
 Ximeno, Rafael, 342  
 Xiong Qinglai, 368  
 Xu Baolu (Hsu Pao-Lu), 367  
 Xu Guangqi, 159  
 Xu Shen, 57  
 Xu Xinlu, 158  
 Xu Yibao, 361–375  
 Xu Yue, 62  
 Xu Zelin, 82

**Y**

Yale, Elihu, 183  
 Yamaji Nushizumi, 169  
 Yan Dunjie, 61  
 Yang Chunhong, 56  
 Yang Hui, 67–69  
 Yang Wuzhi, 368  
 Yang Xuwei, 66, 68, 69  
 Yankovich de Mirijevo, Fyodor, 308, 583, 584  
 Yaroslav the Wise, 144  
 Yates, Robert C., 574  
 Yealdham, Florence Annie, 270  
 Yi Yingkun, 364  
 Yoshida Mitsuyoshi, 166  
 Young, Jacob William Albert, 328, 531–533, 535, 589  
 Young, James, 272  
 Young, John Radford, 478  
 Yu Heng, 364  
 Yu Jieshi, 366  
 Yu Xiangdou, 158  
 Yu Xiuyuan, 373  
 Yuan Xiangdong, 367, 369, 371  
 Yushkevich, Adolph P., 143, 146, 303

**Z**

Zacharias, Jerrold, 528  
 Zaliznyak, Andrey, 14  
 Zampoli, Mauro, 206  
 Zaouche, Abdeljalil, 421  
 Zarrouk, Mohamed Larbi, 406, 415, 417–420

Zaslavsky, Claudia, 392  
 Zayn al-Dīn b. Ṭalḥa, 102  
 Zhang Dianzhou, 366–368  
 Zhang Jiuling, 60  
 Zhang Qiujian, 58, 61, 62, 67  
 Zhang Yinnan, 373  
 Zhang Youyu, 368  
 Zhang Zugui, 367, 369, 371  
 Zhao Liao, 364  
 Zhao Lincheng, 373  
 Zhen Luan, 58–60, 62  
 Zheng Jiabing, 365  
 Zheng Xuan, 57  
 Zheng Zhifan, 368  
 Zheng Zhong, 57  
 Zhou Dongming, 68  
 Zhou Gong, 56  
 Zhu Shijie, 69, 70, 161, 169  
 Zimmermann, Christian Gottlieb, 497  
 Zoleo, Francisco, 288  
 Zonta, Mauro, 94  
 Zotti, Solange Aparecida, 349  
 Zou Dahai, 57  
 Zu Chongzhi, 62  
 Zu Gengzhi, 62  
 Zuccheri, Luciana, 69, 70, 161, 169  
 Zudini, Verena, 22, 219, 493–510  
 Zuluaga, Olga Lucia, 337, 338, 350  
 Zumkley, Caspar, 142  
 Zvavich, Leonid, 589  
 Zweng, Marilyn, 388  
 Zymek, Bernd, 251

# Subject Index

## A

- Abacus, 46, 72, 112, 113, 115, 120, 144, 154, 157, 158, 165, 166, 168, 188, 270, 363, 365, 433, 435, 436, 531, 570–571
- “A bas Euclide,” 486
- Abitur, 140, 242–248, 250, 253, 536
- Abstract algebra, 268, 297, 470, 487
- Abstraction, 114, 224, 230, 231, 233, 239, 245, 444, 448, 449, 451, 454, 471, 478, 502, 508, 576
- Academic Gymnasium, 305–307
- Accountant, 46–47, 66, 75, 188, 292, 421
- Active learning, 488, 529
- Active participation of students, 296
- Administrative history, 14
- Administrative policy, 11
- Adolescent(s), 36, 449, 516, 517, 519, 521
- Advanced course of study in mathematics, 319
- African Mathematics Program (AMP).  
See Entebbe Mathematics program
- Agrégation*, 231, 238, 422, 587, 591
- AIGT. See Association for the Improvement of Geometrical Teaching (AIGT)
- A-level, 267, 393, 396
- Algebra, 70, 85, 115, 137, 154, 178, 202, 230, 243, 264, 285, 310, 324, 339, 363, 395, 410, 434, 459, 473, 494, 515, 526, 548, 567, 576 and others
- Algebraic equations, 243, 314, 368, 463, 494, 495
- Algebraic language, 465
- Algebraic notation, 170, 461
- Algebraic structure, 290, 297, 353, 449, 466, 470, 471, 486, 487
- Algebra textbooks, 215, 274, 349, 364, 378, 440, 461–462, 466, 468, 526, 567
- Algorithm/algorithm, 50, 63, 72–74, 76, 78, 118, 119, 158, 190, 354, 415, 432–434, 436, 451, 452, 459, 518, 519, 575
- Al-jabr*, 413, 460
- All-Russian Congresses of Mathematics Teachers, 315
- Almagest, 40, 42, 43, 47, 48, 88, 89, 94, 114, 115, 117, 118
- Analysis cultural, 17
- Analysis social, 10, 18, 20
- Analytic geometry, 194, 243, 247, 287, 289, 346, 353, 354, 365–368, 371, 425, 467, 479–481, 484, 498, 499, 501, 509
- Analytic method, 326, 380, 480, 481
- Ancien Régime*, 137, 230
- Ancient Near East, 27–29
- Anglican Church, 136
- APMEP. See *Association des Professeurs de Mathématique de l'Enseignement Public* (APMEP)
- Applications, 10, 37, 71, 92, 120, 134, 139, 147, 178, 181, 194, 202, 205, 208, 218, 219, 223, 230–234, 239, 243, 244, 246, 248, 250, 252, 271, 273, 274, 276, 286, 291, 293, 295, 297, 298, 311, 314, 324, 326, 341, 342, 345, 348, 352, 366, 367, 372, 374, 395, 398, 416, 419, 425, 433, 435, 446, 451, 454, 460, 462, 466–470, 473, 474, 480, 495, 499–502, 504–507, 517–519, 528, 548, 556, 569, 571
- Apprentice/apprenticeship, 30, 71, 76, 110, 119–121, 237, 276, 306, 394, 395, 431, 517, 519–521
- Arabic numeral system, 432, 433
- Archeology/archeological, 17, 71
- Archival research, 5
- Argyll Commission, 273
- Aristotelian grammar, 116
- Aristotelian logic, 113, 116
- Aristotelian philosophy, 110, 116
- Arithmetic, 3, 11, 38, 72, 110, 132, 158, 176, 202, 230, 243, 264, 285, 303, 324, 336, 363, 392, 409, 431, 459, 473, 496, 515, 525, 566, 573 and others
- Arithmetic education, 453, 454
- Arithmetic progression, 38, 77
- Arithmetic (*tsifirnye*) schools, 305
- Arithmetic textbook, 3, 251, 326, 342, 346, 364, 412, 431, 432, 435–436, 438, 440, 446, 454, 461, 533, 575
- Artillery schools, 138, 305, 306, 496
- Arts faculty, 116–119, 130, 131, 133, 134
- Assessment, 18, 279, 294, 331, 374, 395, 397, 527, 531, 534, 536, 537, 593
- Association des Professeurs de Mathématique de l'Enseignement Public* (APMEP), 234–236, 238, 239, 508, 546

- Association for the Improvement of Geometrical Teaching (AIGT), 261, 262, 482, 546
- Association of mathematics teachers, 382, 383, 508, 546
- Associative law, 387
- Astrological Commission, 69
- Astrology, 44, 47, 48, 85, 87, 94, 97, 112, 114, 116, 118, 146, 190, 192, 434
- Astronomical Bureau, 66–69
- Astronomy, 4, 47–49, 63–66, 68–75, 77–79, 85, 87, 88, 90, 93–95, 98, 100, 103–105, 110, 112, 114, 116–118, 133, 135, 136, 148, 154, 156, 157, 179, 181, 184, 191, 192, 246, 270, 287, 292, 327, 363, 367, 376–379, 409, 410, 434, 460–462, 474, 475, 527, 528, 574, 588
- Audiovisual media, 528, 529
- Aula do Comércio*, 292
- Aulas regias*, 142, 193, 341
- Australian National Training Authority (ANTA), 519
- Australian Qualifications Framework (AQF), 521
- Autobiographies, 87–91, 411
- Axiomatization, 382
- Axiom of parallels, 477, 478
- Azbekovniki*, 146
- B**
- Baccalauréat*, 118, 229, 233, 236, 287, 290, 413, 421–424, 426, 427, 481, 536
- Back to basics, 331, 388, 448
- Banner schools, 156
- Bardo military school, 406, 414–416, 418
- Bardo School of War, 415, 416
- Behaviorism, 448
- Bequeathed problems (*idai*), 168, 169
- Biographies, 5, 15, 88, 101, 104, 269, 273, 312, 550
- Blackboard, 16, 17, 19, 280, 317, 417, 465, 528–530, 532–535, 537, 566–568, 572, 582
- Bourbakism, 486–487
- Bourbakist movement, 467, 468
- Bourbon restoration, 286
- Boxer Indemnity Funds, 165, 368
- British and Foreign School Society, 264
- Brotherhood schools, 148
- Brummers, 348
- Burgh schools, 270
- Byzantium, 143, 144
- C**
- Cadet Corps, 306, 308, 312, 313
- Calculation, 28, 32, 33, 35, 36, 38, 43, 46, 48, 50, 67, 68, 85, 86, 91, 94, 95, 110–112, 115, 118–121, 143, 154, 156, 157, 163–167, 169, 170, 181, 182, 188, 192, 223, 231, 261, 271, 277, 331, 363, 425, 433–435, 438–440, 445, 463, 473, 474, 476, 494–496, 498, 518, 521, 529, 570, 572, 581
- Calculator, 16, 43, 46, 74–77, 100, 298, 331, 374, 454, 520, 530, 565, 571, 572, 575
- Calculus, 161, 180, 184, 202, 213, 214, 218–219, 230, 238, 249, 250, 265, 272, 278, 295, 315, 319, 327, 346, 348, 351, 352, 363, 365, 367–369, 373, 379, 381, 462, 466, 480, 484, 493–510, 515, 519, 527, 534, 552
- Calling a student to the blackboard, 465
- Calvinism, 132
- Cambridge University, 141, 369, 395, 438
- Capitalism, 188, 447
- Cartesian geometry, 475–476, 574
- Cartesian method, 471, 476
- Casati law, 208–218, 221, 225
- Cathedral school, 109, 111, 112, 116, 130, 136, 474
- Catholic Counter-Reform, 437
- Catholic countries, 131, 135, 137, 141, 189, 461
- Catholic schooling, 133–135
- Cavalieri's principle, 504
- Central Committee of the All-Soviet Communist Party (Bolsheviks) resolutions, 316
- Certificate of Secondary Education (CSE), 267,
- Challenge, 21, 41, 42, 86, 139, 170, 231, 233–235, 238, 248, 277, 336, 337, 350–355, 381–384, 388, 394, 397, 398, 499, 526, 557
- Chinese remainder theorem, 170
- Chronology, 96, 187
- CIAEM. *See* Conferencia Interamericana de Educación Matemática (CIAEM)
- CIEAEM. *See* *Commission Internationale pour l'Etude et l'Amélioration de l'Enseignement des Mathématiques* (CIEAEM)
- CIEM (*Commission Internationale de l'Enseignement Mathématique*). *See* International Commission on the Teaching of Mathematics (ICMI)
- Ciphering. *See* Cyphering
- Civil engineering, 339, 380
- Classical humanities, 230, 231, 233–235, 248
- Classical school, 210, 213, 222, 225, 246, 248, 249, 506
- Classical studies, 206, 212, 241, 243–245
- Clay tablets, 27, 28, 420, 459, 566
- Cockcroft report, 268, 521, 522
- Colégio Pedro II*, 341, 342, 347–349, 352, 464, 466, 509
- College entrance requirement, 324, 466
- Collèges modernes*, 232, 236
- Colonialism, 376, 393, 398, 453, 547
- Colonial times, 189–192, 399
- Colonies/colonization, 136, 142, 176–178, 181–187, 189, 192–194, 272, 283, 294, 324, 343, 384, 387, 391–401, 405, 426, 446, 557, 566, 580
- Combinatorics, 213, 319
- Commercial academies, 270–271
- Commercial arithmetic, 144, 380, 425, 432, 433, 441, 461, 531
- Commission Internationale pour l'Etude et l'Amélioration de l'Enseignement des Mathématiques* (CIEAEM), 225, 236, 290, 297, 449–451, 486, 555, 556
- Common fractions, 37, 437, 452, 454
- Common schools, 323, 324, 327, 332, 442, 532

Communication, 99, 167–168, 372, 400, 414, 483, 502, 503, 510, 519, 543–547, 549, 550, 553, 555  
 Communist Party, 14, 19, 315, 316, 362, 370, 371  
 Commutative law/commutativity, 387, 451  
 Comparative education, 6  
 Compass, 76, 233, 380, 425, 483, 530, 572, 573  
 Competency-based, 518, 520  
 Complex-based education, 316  
 Complex numbers, 213, 266, 275, 289, 354, 466  
 Comprehensive schools, 235, 243, 266–268, 276  
 Compulsory Educational Act, 373  
 Compulsory education/compulsory schooling, 210, 237, 239, 373, 374, 439, 446, 454  
 Computer, 16, 21, 225, 298, 319, 331, 374, 520, 531, 568–570, 572, 576  
 Computus, 110–112, 115, 117–119, 148  
 Concept of transformation, 213, 387  
 Concours, 143, 583, 587, 588, 591, 592  
*Conferencia Interamericana de Educación Matemática* (CIAEM), 353, 354, 556, 559  
 Confucian classics, 63, 153, 365  
 Congruence, 345, 368, 478, 484, 485, 515  
 Conic sections, 140, 180, 182, 184, 185, 206, 243, 247, 265, 266, 271, 274, 314, 325, 341, 379–381, 479–481, 575, 581, 582  
 Consolidation, 187, 229, 290, 291, 294–295, 335–350, 353, 471, 589  
 Co-ordinate geometry, 256, 260, 262, 265  
 Coppino Act, 212  
 CSE. *See* Certificate of Secondary Education (CSE)  
 Cuisenaire rods, 264, 298, 387, 530, 576  
 Cultural Revolution, 362, 372, 373, 375  
 Cultural turn, 526  
 Cuneiform, 28–30, 35, 36, 525  
 Curriculum/curricula, 3, 18, 27, 56, 95, 110, 131, 154, 176, 202, 230, 243, 264, 294, 304, 324, 340, 365, 393, 406, 431, 461, 480, 495, 520, 526, 557, 566, 575 and others  
 Curriculum in higher education, 367  
 Cyphering, 325, 531, 566

**D**  
 Dark Ages, 109–110  
 Decimal fractions, 243, 259, 411, 425, 436–438, 440, 441, 445, 452, 454  
 Decimal metric system, 341, 346  
 Deductive geometry, 349, 352, 483  
 ( $\epsilon, \delta$ )-definition, 501  
 Democratization, 237–239  
 Demo lesson, 581, 582, 584  
 Department of Science and Art (DSA), 262  
 Descriptive geometry, 206, 211, 266, 340, 341, 425, 478, 479, 483–485  
 Descriptive studies, 13–16  
 Developmental psychology, 450, 529  
 Development Program for the 21<sup>st</sup> Century, 374  
 Diagnostic test, 276  
 Didactic poem, 99, 409, 411

Didactics, 224, 250, 463, 465, 522, 552, 556, 580, 588, 590  
 Dienes blocks, 298  
 Differential calculus, 265, 271, 275, 288, 365, 379, 380, 383, 493, 496, 503, 505–508, 510  
 Directorate of Sons of State, 60, 68  
 Discovery method, 383, 387  
 Distributive law, 387, 452  
 Division table, 166  
 Double false position, 95, 99, 120, 158, 434  
 Drills and rote memorization, 312  
 Dubrovnik seminar, 469, 470, 486  
 Dunning Committee, 279  
 Dynasty of Bourbons, 284  
 Dynasty of Habsburgs, 145  
 Dynasty of Han, 58  
 Dynasty of Meiji, 169  
 Dynasty of Ming, 56, 70, 154, 156–158, 168  
 Dynasty of Romanovs, 147  
 Dynasty of Song, 56, 60, 66–69, 158, 159, 161  
 Dynasty of Tang, 58–69  
 Dynasty of Tokugawa, 155, 167  
 Dynasty of Yuan, 56, 69, 161

**E**

East Asian Regional Conference on Mathematics Education (EARCOME), 388, 558  
 East India Company (EIC), 376–378, 380, 391  
*École Normale*, 203, 231, 326, 347, 414, 418, 583, 587, 588  
*École Normale Supérieure* (ENS), 203, 231, 347, 418, 587, 588  
*École Polytechnique*, 24, 232, 288, 346, 463, 464, 478, 479, 481, 483, 496, 499, 506, 516, 522, 548, 587  
 Economy of thought, 503  
 Edo period, 453  
*Edubba*, 29  
 Education Act of 1902, 262  
 Education Act of 1918, 275  
 Education Act of 1944, 263, 267  
 Education Act of 1970, 290  
 Education Act of 1988, 257  
 Educational Interfaces between Mathematics and Industry (EIMI), 516  
 Educational psychology, 332, 449, 556  
 Education of girls, 231  
 EIC. *See* East India Company (EIC)  
 Eight practices (*vyavahāra*), 74, 75  
 Elementary education, 27, 31, 165, 167, 168, 176–177, 217, 259–260, 263, 264, 269, 292, 307, 332, 336–338, 343–345, 350, 352, 354, 402, 442, 444  
 Elementary mathematics, 73–74, 121, 144–146, 179, 180, 208, 216, 220, 247, 248, 293, 336, 340, 343, 462, 464, 484, 495, 507, 518, 520, 546  
 Elementary school, 13, 29, 85, 87, 96, 207, 238, 243, 262, 269, 275, 306, 308, 313, 332, 343, 345–349, 353, 354, 363, 371, 400, 439, 442–444, 446, 453, 487–489, 572, 579  
 Elementary school teacher, 208, 263, 323, 327, 337, 344, 350, 565

- Elements of Euclid, 89, 135, 473, 474  
 Elite, 29, 40, 43, 45, 46, 70, 75, 109, 155, 168, 187, 190, 191, 219, 221, 229–235, 237, 239, 251, 296, 320, 336, 342, 344, 348, 351, 352, 379, 382, 393, 398, 405, 407, 410, 417, 419, 448, 580, 583, 585, 586, 589–591  
 Elitist school system, 367  
*Encyclopédie*, 462  
 Engraftment, 377–379, 382  
 Enlightenment, 3, 137, 139, 140, 142, 143, 192, 194, 272, 286, 308, 336, 340, 342, 407, 418, 438, 439, 441, 446, 462, 529  
 Entebbe Mathematics program, 395  
 Erudites, 29, 40, 59, 61, 64, 66, 69, 527  
*Escola Nova*, 291, 296–297  
 Ethnomathematics, 187, 384, 399, 400, 453, 560  
 Euclidean method, 212, 214, 482, 484  
 Examination (exams), 19, 20, 34, 35, 56, 61–68, 136, 138, 140, 141, 157, 159, 161, 164, 192, 207, 209, 214, 215, 217, 221, 242–248, 261, 263, 264, 266–268, 274, 287, 294, 318, 327, 328, 330, 337, 367, 368, 380, 386, 393, 394, 396, 413, 421, 535, 536, 550, 581–584, 589, 591, 592  
 Examination procedures, 56, 63–65, 134, 294, 380  
 Examinations college entrance, 372, 373, 468, 508, 509  
 Exercises, 29, 30, 33, 37, 41–43, 45, 46, 49, 71, 96, 98, 159, 161, 203, 208, 212–214, 220, 250, 251, 259, 273, 274, 286, 293, 295, 317, 349, 362, 385, 405, 410, 412, 416, 419, 421, 431, 433, 443, 445, 446, 454, 460, 463, 480, 502, 503, 530, 531, 533–535, 537, 588  
 Exhaustion method, 494  
 Experimental geometry, 473, 483, 484, 529  
 Experimental psychology, 448  
 Exponents, 207, 248, 252, 314, 317, 466, 502, 504  
 External college, 67
- F**  
 Factorization, 345, 380  
 Fascist, 219, 222–226, 290, 391, 506, 589  
 Fields Medal, 15  
 Fife Mathematics Project, 278  
 First-degree equations, 295, 311, 465, 466, 468, 470  
 First Empire, 229  
 First Letters, 291, 336  
 Formative value, 580  
 Four arithmetic operations, 291, 337, 434, 437, 454  
 Fourth-degree equations, 460, 461, 463  
 Fractions, 37, 46, 67, 74, 75, 77, 91, 96, 98, 117, 118, 120, 147, 148, 158, 163, 177, 179, 185, 243, 259, 270, 295, 310, 312, 314, 326, 345, 382, 409, 411, 412, 424, 425, 433, 434, 436–438, 440, 441, 443–446, 451, 452, 454, 464, 468, 520, 575  
 Franco-Arab primary schools, 407, 423  
 Frascati Programs, 225  
 French protectorate, 405–407, 409, 419, 422–424, 427  
 French Revolution, 18, 131, 137, 138, 143, 230, 241, 243, 259, 292, 437, 439, 444, 462, 463, 477, 496, 579
- Functional reasoning/functional thinking, 248, 249, 259, 484, 499, 505  
 Fundamental Theorem of Calculus, 494  
 Fusion (of plane and solid geometry), 485
- G**  
 Garrison schools, 305, 306  
 General Certificate of Secondary Education (GCSE), 267  
 General education, 6, 11, 12, 40, 179, 191, 194, 232, 233, 235–237, 253, 273, 305, 307, 310, 347, 379, 439, 462, 515–517, 519–521  
 Generalization, 13, 15, 317, 402  
 Genetic approach/mode, 461, 531  
 Gentile reform, 214, 218–226, 506  
 Geometrical constructions, 92, 271, 483–484, 503, 530  
 Geometrical problem, 37, 42, 92, 434  
 Geometric progression, 182, 271, 295, 341, 345, 445  
 Geometry, 4, 17, 37, 74, 85, 110, 131, 156, 178, 202, 230, 243, 261, 285, 303, 324, 336, 363, 395, 438, 459, 493, 515, 526, 548, 567, 576 and others  
 Geometry of the triangle, 482  
 Geometry of transformations, 484  
 Gewerbeschule. *See* Schools for crafts and trades  
*Ginnasio*, 202, 203, 209–212, 216, 217, 220, 224  
 Girls' schools, 504  
 Golden Rule. *See* Rule of Three  
 Gold-melting problems, 76  
 Gonella Reform, 225  
 Government schools, 157, 159, 209, 386, 393  
 Grammar school, 120, 176, 179, 182–183, 258, 260, 261, 263, 265–270, 273, 323, 324, 475  
*Grandes Écoles*, 230, 232, 233, 478, 480, 481, 587  
 Graphical methods, 274, 483  
 Graphical representation, 466, 467, 480, 500–502, 505, 506  
 Greatest common factor, 451  
 Great Leap Forward, 362, 371  
 Greco-Roman, 27, 38–51  
 Greek schools, 145, 148  
 Group theory, 268, 367–369, 383  
 Guru, 71, 77  
 Gymnasium, 3, 15, 19, 131–134, 136, 140, 142, 241–243, 245–246, 248, 249, 252, 253, 305–307, 309–315, 320, 440, 463, 475, 496, 501, 503, 506, 507, 517, 519, 523, 536, 579, 581, 586
- H**  
 Hamilton Fyfe Report, 276  
 Hellenistic, 35–36, 39, 41, 43, 45, 473  
 Heuristics, 296  
 Hieratic, 36  
 Hieroglyphic, 36  
 High-stakes examination, 535  
 Hindu-Arabic numerals, 112, 114, 117, 120, 433  
 Hindu pandits, 79  
 Historical method, 16, 354  
 History of education, 5, 6, 56, 135, 376, 515, 565, 588  
 History of mathematics  
 History of science, 186, 381

History Social, 10, 13, 120, 526  
 Holy Roman Empire, 129, 241  
 Homework, 18, 97, 120, 317, 531, 533, 534  
 Household encyclopedias, 158  
 House of courtiers, 86  
 House of Life, 37  
 Humanism, 134, 135, 141, 242, 245  
 Humanist education, 232, 233  
 Hydrostatics, 181, 185, 266, 271, 379

**I**

IACME. *See* Interamerican Committee of Mathematics Education (IACME)  
 ICME. *See* International Congress on Mathematical Education (ICME)  
 ICMI. *See* International Commission on the Teaching of Mathematics (ICMI)  
 Illiteracy, 209, 260, 297, 399  
 Imperialist European policy, 391  
 Inclusive education, 350, 352  
 Incommensurables, 347, 372  
 Independent schools, 72, 267, 268, 344  
 Inductive, 326, 383, 447, 485, 529  
 Inductive method/reasoning, 326, 383, 447, 529, 532  
 Industrial Revolution, 232, 272  
 Inequalities, 209, 211, 254, 276, 295, 345, 401, 425, 469, 470  
 Infinitesimal calculus, 194, 218–219, 221, 285, 289, 348, 462, 464, 465, 471, 493, 496, 500–503, 506, 507  
 Influence, 9–13, 16, 20, 22, 50, 55, 113, 129, 140, 144–147, 153–156, 161, 176, 186, 192, 194, 202–204, 215, 225, 251, 263, 268, 274, 283, 284, 292, 296–298, 307, 310, 313, 315, 320, 338, 339, 342, 344–347, 350, 353, 355, 371, 373, 375–376, 381, 385, 387, 392, 393, 399–401, 405, 433, 442, 447, 451, 454, 463, 465, 468, 469, 521, 529, 532, 534, 535, 537, 549, 566, 567, 574, 576, 584, 593  
 Informal education, 186, 394  
 Initiation schools, 392  
 Innovations, 97, 115, 118, 130, 133, 140, 153, 205, 208, 211, 213, 225, 237, 252, 265, 268, 295, 298, 316, 336, 340–355, 373, 393, 402, 415, 416, 425, 449, 500, 555, 556, 559, 568, 574  
 Institutionalized mathematics education, 58–59  
 Institutions for nobles, 311  
*Institut de recherche sur l'enseignement des mathématiques* (IREM), 238, 239  
 Instructional methods, 525  
 Integral calculus, 137, 140, 161, 182, 249, 262, 266, 271, 285, 294, 297, 314, 341, 346, 348, 365, 367, 373, 381, 411, 462, 464, 468, 493, 495–497, 499–506, 509, 567, 582  
 Interamerican Committee of Mathematics Education (IACME), 353, 354, 556, 559  
 Internal college, 67  
 International Commission on the Teaching of Mathematics (ICMI), 221, 222, 225, 257, 265, 289, 291, 297, 315, 327, 332, 353, 450, 467, 484–486, 515, 544, 548–560, 586, 588

International Congress on Mathematical Education (ICME), 5, 556, 558, 560  
 International cooperation, 249, 543–561  
 Internationale Mathematische Unterrichtscommission (IMUK). *See* International Commission on the Teaching of Mathematics (ICMI)  
 International mathematics Olympiad (IMO), 375  
 International reform movement, 3, 449, 483–485, 503  
 Intuition, 214, 224, 225, 295, 296, 349, 352, 370, 372, 482, 484, 485, 503, 507, 552, 574  
 Irrational expressions, 468  
 Irrational numbers, 437, 440, 478, 504  
 Islamic civilization, 391  
 Islamic society, 85–105

**J**

Jesuit college, 131, 133, 134, 136–138, 148, 181, 191, 212, 284, 285, 461, 474, 475, 536  
 Jesuits, 133–135, 142, 145, 154–156, 181, 189–191, 204, 207, 208, 284, 285, 292, 341, 461, 474, 475, 536  
 Jiangnan Arsenal, 161, 163  
*Jiaoyan she* (Teaching and Research Groups), 371  
*Jiu shu*, 56, 57  
 Josephus problem, 167  
 July Monarchy, 229, 444  
*Junta para Ampliación de Estudios e Investigaciones Científicas*, 289

**K**

Kerala school, 78  
*Khaldūniyya* association, 407, 411, 413–414, 418, 421, 427  
 Kiev-Mogila Academy, 148  
 Kolmogorov reforms, 319, 320  
 Kothari Commission, 382  
*Kuimao xuezhì* (the 1904 school system), 363  
*Kutrāb*, 408–409, 417, 420, 422, 423

**L**

Laboratory approach/method, 329, 483, 530, 574  
 Laboratory School, 347, 488  
 Lancaster's method, 337, 338, 345, 355  
 Late Antiquity, 40–44, 48, 50, 111  
 Latin school, 109, 110, 131, 136, 139, 140, 177, 324, 432, 437, 441, 445, 580, 584  
 LEA. *See* Local Education Authority (LEA)  
 Learning by discovery, 296  
 Learning by heart, 71  
 Least common multiple, 345, 425, 451  
 Leaving certificate, 274–275  
*L'Enseignement Mathématique*, 3, 4, 229, 289, 498, 502, 503, 505–507, 509, 544, 547–549, 559, 588  
 Lesson plans, 12, 264, 526  
*Liber abbaci*, 119, 120, 433  
 Liberal arts, 12, 110, 111, 115, 116, 148, 179, 191, 269, 305  
 License, 231, 238  
*Liceo classico*, 218–221, 224



- Liceo moderno*, 218–219, 221  
*Liceo scientifico*, 218, 220, 221, 224, 506  
 Linear algebra, 254, 268, 353, 383, 473, 486, 487  
 Literacy, 36, 37, 44, 79, 120, 154, 209, 259, 269, 324, 350, 399, 442, 520, 522, 526, 557  
 Local Education Authority (LEA), 262, 264  
 Logarithms, 140, 159, 185, 192, 202, 231, 243, 261, 266, 271, 273, 275, 295, 314, 341, 345, 379, 380, 413, 417, 438, 445, 462–466, 495, 502, 535, 565, 571, 575  
 Logic, 97, 98, 113, 115, 116, 119, 131, 134, 136, 141, 181–183, 225, 234, 264, 266, 278, 285, 286, 294, 297, 326, 340, 373, 422, 450, 460, 471, 474, 486, 487, 529, 569, 588, 590  
 Lutheran Protestantism, 135  
*Lycée*, 229–235, 340, 417–419, 421–425, 480, 481, 486, 504, 507, 586
- M**  
 Madrasa, 86, 87, 89, 91, 95, 97, 100, 104, 105, 408, 409, 414, 415, 460  
 Madrasa teacher, 93, 96, 98, 102  
*Maestri d' abacco*, 433, 579  
 Master builders, 121  
 Mathematical and Navigational School, 304  
 Mathematical Association, 250, 261, 264, 329, 546  
 Mathematical astronomy, 64, 66, 68, 73–75, 77, 78, 110  
 Mathematical concept, 235, 238, 252, 392–393, 395, 397–399, 451, 493–495, 499, 521, 576  
 Mathematical cosmography, 85, 95, 96, 103  
 Mathematical field trips, 531  
 Mathematical logic, 297  
 Mathematically gifted, 530  
 Mathematical manuscript, 63, 78, 86, 87, 104, 146  
 Mathematical structure, 238, 449, 469  
 Mathematical Tripos, 141, 262, 535  
 Mathematics education community, 332, 558, 589  
 Mathematics for all, 237–239, 398, 560  
 Mathematics Gazette, 261  
 Mathematics in Education and Industry (MEI), 268  
 Mathematics practitioner, 178, 258, 261, 575  
 Mathematics syllabus, 140, 265, 276–277, 370, 372, 373, 395, 396  
 Mathematics teacher, 4, 13, 118, 133, 158, 213, 231, 243, 261, 287, 308, 326, 347, 363, 397, 416, 463, 499, 536, 544, 573, 574 and others  
 Mathematics textbooks, 14, 17, 146, 193, 206–207, 287–289, 307, 319, 325, 326, 342–343, 346, 349, 350, 353, 363–365, 370–372, 382, 384, 387, 395, 399, 400, 436, 527, 566, 567  
 Mathesis Association, 214, 216, 217, 219–222  
 Measurement, 18, 30, 31, 35, 49, 50, 88, 110, 114, 120, 154, 156, 159, 161, 167, 181, 212, 274, 277, 382, 396, 413, 415, 434, 446, 453, 483, 520, 529, 571  
 Mechanics, 85, 93, 180, 194, 202, 206, 208, 234, 246, 259, 261, 262, 266, 291, 293, 340, 348, 368, 371, 379, 387, 396, 397, 462, 464, 468, 479, 501, 502, 518, 548, 582, 587  
 Mechanics institutes, 272, 519  
 MEI. *See* Mathematics in Education and Industry (MEI)  
 Memorization, 31, 61, 63, 99, 157, 158, 166, 311, 312, 326, 367, 401, 412, 531, 532, 566  
 Memorization skill, 438  
 Mensuration, 261, 263, 271, 276, 279, 378, 382, 487  
 Mental arithmetic, 380, 399, 439, 440, 443, 444, 532, 533, 571  
 Mental calculation, 165, 440  
 Mental development, 310, 503  
 Mental gymnastics, 211, 501  
 Mental mathematics, 447  
*Meraner Lehrpläne*, 483, 501  
*Meraner Reform*, 501  
 Merchant schools, 154  
 Mesopotamia, 27–35, 37–39, 43, 44, 50, 459, 544, 579  
 Methodology, 5, 9–23, 221, 222, 225, 234, 245, 250, 252, 288, 296, 307, 311, 313, 317, 346, 349, 374, 377, 380, 397, 449, 450, 505, 532, 584  
 Metrological system/tables, 32, 33, 35  
 Middle Ages, 3, 6, 20, 26, 47, 48, 51, 55–79, 109–121, 130, 131, 136, 143, 391, 411, 432–435, 437, 474, 475, 517  
 Midland Mathematics Experiment (MME), 268  
 Military-engineering schools, 311, 313  
 Military schools, 137–138, 285, 291, 292, 305, 308, 311, 314, 339, 341, 347, 406, 408, 414–416, 418, 419, 427, 462, 464, 465, 475, 479, 495, 496, 504, 583  
 Missionaries, 139, 154–156, 159, 161, 163, 176, 189, 362, 368, 375, 377, 385, 392, 394, 395, 399  
 Mission schools, 393, 400  
 MME. *See* Midland Mathematics Experiment (MME)  
 Modern Algebra, 238, 367, 368, 468  
 Modern Mathematics, 161, 193, 236–239, 277, 289–291, 297–298, 354, 368, 381, 382, 449–450, 466–471, 487, 494, 555  
 Modern schools, 154, 264, 267  
 Monastery school, 431  
 Mongol Empire, 69  
 Monitoring and control, 317  
 Moore method, 530, 532  
 Motions, 214, 215, 233, 484, 493, 508, 573  
 Multiplication table, 30, 32, 35, 57, 58, 70, 74, 120, 146, 158, 166, 380, 382, 385, 433, 434, 438, 446  
 Myth, 20–22
- N**  
*Napoleonic liceo*, 202–204  
 Napoleonic period, 241–242, 244, 463  
 National Council of Educational Research and Training (India), 382, 383  
 National Council of Teachers of Mathematics (NCTM), 4, 298, 331, 332, 470, 509, 546  
 National curriculum, 257, 261, 265, 269, 374, 384, 394, 396, 452, 567  
 Nationalist, 21, 161, 225, 235, 250, 296, 362, 366, 367, 370, 405, 407, 412, 424, 517  
 National Science Foundation (NSF), 508, 559  
 National state, 22, 129  
 Native School Book Societies, 377

- Natural order, 476  
 Natural philosophy, 87, 115, 116, 118, 119, 179, 180, 182–184, 271, 327, 379, 527, 528  
 Naval Cadet Corps, 308  
 Navy schools, 496  
 NCTM. *See* National Council of Teachers of Mathematics (NCTM)  
 Neo-humanism, 242, 245  
 New math, 253, 254, 277, 318, 329–331, 353–355, 393, 398, 431, 450, 452–454, 486, 487, 530, 555, 558, 559, 576  
 New World, 109, 175, 176, 186, 187, 189, 192  
 Nine Chapters on the Mathematical Art, 57  
 Nobility, 137–138, 144, 284, 285, 292, 305  
 Non-Western cultures, 182  
 Normal primary school, 5, 43, 131, 143, 205, 207–209, 220, 275, 298, 325, 422–424, 427, 591, 592  
 Normal school, 208, 210, 211, 231, 236, 326–328, 336–338, 344, 347, 349–350, 352, 353, 355, 363, 379, 420, 439, 444, 481, 559, 579, 586  
 Norwood Committee, 266  
 Nuffield Project, 264, 488  
 Number sense, 447  
 Number theory, 85, 88, 91, 93–95, 97, 98, 221, 345, 363, 367–369, 454  
 Numeracy, 36, 44, 46, 79, 179, 270, 396, 439, 442, 447, 520  
 Numerical tables, 30, 31, 33, 35, 76
- O**  
 Object lessons, 349–350  
 OECD. *See* Organisation for Economic Co-operation and Development (OECD)  
 OEEC. *See* Organisation for European Economic Co-operation (OEEC)  
 Official curricula, 298, 348, 481  
 O-level, 267, 393, 396, 581  
 Open door policy, 362, 374  
 Opium War, 155, 156, 158, 159, 165, 362  
 Oral examinations, 294, 534–536  
 Oral instruction, 532  
 Oral problems, 532  
 Oral tradition, 121, 459–461  
 Oral transmission, 462  
 Organisation for Economic Co-operation and Development (OECD), 236, 252, 297, 449, 486, 515, 516, 543, 554, 555, 560  
 Organisation for European Economic Co-operation (OEEC), 236, 449–452, 469, 470, 487, 543, 555, 557, 560  
 Orthodox Christianity, 143, 148  
 Ottoman Empire, 96, 99, 102, 103, 144, 405, 406  
 Ottoman rule, 145, 406–407, 427  
 Overhead projector, 528, 568–569  
 Oxford university, 115, 117, 118, 136, 179, 182, 258, 261, 438, 502, 535, 585  
 Palace school, 111  
 Paris Academy, 138  
 Parish schools, 131, 272, 273, 309  
 Paris Report on Calculus in secondary schools, 508  
 Partnership, 120, 434  
 Pedagogical psychology, 317  
 Pen-and-paper work, 533  
*Perestroika*, 319, 320  
 Permutation, 246, 271, 275, 445, 452  
 Pestalozzian principles, 532  
 PGDE. *See* Programs for Post Graduate Diploma in Education (PGDE)  
 Phelps-Stoke Commission, 394  
 Philanthropinism, 137, 139  
 Plane geometry, 147, 219, 289, 293, 327, 354, 364, 371, 379, 380, 418, 423, 482, 534  
 Plane trigonometry, 181, 245, 293, 314, 364, 365, 379  
 Polytechnization, 319  
 Positivism, 348, 349, 509  
 Postmodernist scholars, 14  
 Post secondary education, 346  
 Postulates, 111, 215, 243, 447, 474, 477, 485  
 Powers, 15, 38, 99, 110, 144, 163, 210, 217, 229, 250, 264, 271, 272, 283, 285, 292, 331, 340, 351, 362, 393, 408, 415, 518, 519, 585  
*Practica*, 112, 113, 116, 343, 432, 435, 474  
 Practical arithmetic, 94, 120, 177–179, 270, 437, 533  
 Practical geometry, 113, 114, 121, 182, 206, 261, 291, 336, 381, 414, 422, 474, 475, 481, 573  
 Practices of acquiring knowledge, 526–531  
 Practices of assessing knowledge, 526, 534–536  
 Practices of rehearsing and reinforcing knowledge, 526, 529, 531–534  
 Pre-colonial time, 392  
 Pre-Columbian civilizations, 187  
 Pre-independence period, 394–395  
 Primary education, 190, 209, 263–265, 279, 287, 290, 293, 296, 336, 338, 344, 347, 396, 407, 489, 560, 580, 590, 591  
 Primary school, 5, 43, 131, 205, 229, 249, 264, 291, 324, 338, 386, 395, 407, 439, 470, 487, 532, 555, 578 and others  
 Primary source, 16, 79, 432, 525, 526, 537  
 Private academies, 155–157, 159, 168  
 Private education, 157, 309, 351, 590  
 Private tutors, 59, 131, 135, 271, 537  
 Probabilities, 43, 50, 213, 218, 225, 238, 243, 246, 252, 268, 271, 278, 297, 354, 368, 373, 383, 454, 544  
 Probation year, 582, 584  
 Problem solving, 18, 42, 50–51, 92, 239, 266, 298, 331, 387, 388, 396, 411, 461, 473, 476, 481, 530, 533  
 Professional colleges, 518  
 Professional Development of Mathematics Teachers, 397  
 Professional education, 12, 205–206, 291, 581, 582, 584–588, 590–592  
 Professional training, 6, 43, 46, 194, 209, 216, 221, 223, 226, 237, 243, 271, 287, 420, 442, 461, 583, 585, 588, 591  
 Programs for Post Graduate Diploma in Education (PGDE), 394, 397  
 Progressions, 37, 38, 77, 182, 271, 289, 314, 317, 341, 345, 417, 434, 436, 437, 445  
 Progressive education/school, 326, 448

- Progressive movement/progressivism, 448, 450, 531  
 Projective geometry, 211, 214, 290, 345, 368, 479  
 Projects, 39, 161, 225, 264, 268, 277–278, 315, 330, 348, 354, 377, 387, 397, 402, 450, 487–489, 508, 531, 532, 544, 555–557, 569  
 Proofs, 15, 19, 20, 29, 45, 78, 86, 103, 111, 112, 114, 147, 148, 221, 234, 265, 277, 286, 297, 306, 312, 319, 320, 342, 380, 383, 387, 419, 474, 476–478, 485, 528, 532–535  
 Proportions, 44, 74, 85, 93, 118, 159, 167, 182, 259, 266, 273, 277, 291, 295, 314, 324, 341, 345, 363, 412, 425, 438, 443, 462–465, 467, 476–478, 494, 566, 591  
 Proportion theory, 118, 494  
 Prosopography, 5  
 Protestant countries, 129, 475  
 Protestant Reform, 130, 132, 437  
 Protestant schooling, 132–133  
 Protractor, 485, 530, 573  
 Prussian Gymnasium reforms, 3, 241  
 Public education, 143, 146, 193, 202, 204, 205, 219, 269, 287, 291, 325–326, 330, 338, 341, 344, 366, 398, 439, 448, 463  
 Puritans, 176, 184, 185, 324  
 Pythagorean theorem, 72, 76, 77, 425, 476
- Q**  
*Quadrivium*, 47, 93, 114, 116, 135, 146, 241, 243, 433, 460, 474  
 Quantitative methods, 9, 19  
 Qur'an schools, 420, 423–424
- R**  
 Racism, 401  
 Rationalism, 137, 438  
*Ratio Studiorum*, 133–135, 141, 179, 181, 191, 204, 475  
 Real analysis, 493  
 Realistic Math, 488  
 Real number, 214, 252, 289, 354, 466, 485, 486, 493, 494, 506, 507  
 Real/realist school/*Realschule/Realgymnasium*, 11, 139, 140, 241, 244, 246, 248, 253, 310, 313, 320, 439, 479, 496, 499, 501, 503, 506, 581  
 Real-world practice, 500  
 Reasoning, 15, 143, 211, 212, 215, 230–234, 248, 249, 260, 295, 352, 363, 366, 370, 372, 382, 383, 395, 422, 443, 445, 447–449, 473, 477, 483, 484, 506, 589  
*Rechenhaftigkeit*, 144  
*Rechenmeister*. *See* Reckoning master  
 Recitation, 71, 326, 409, 433, 529, 532, 533, 535, 566, 568  
 Reckoning, 110, 133, 134, 148, 250, 431–435, 438–440, 443, 444, 448  
 Reckoning master, 433, 435, 438  
 Reckoning school, 431–433, 454  
 Recreational problems, 111, 434  
 Reform of 1902, 233–235, 425, 498, 503  
*Reformpädagogik*, 250, 253  
 Regulation of 1771, 285, 286  
 Regulation of 1807, 286  
 Reinforcement, 534  
 Renaissance, 35, 49, 109, 113–115, 119, 120, 432, 433, 437, 459–461, 475, 505, 531, 579  
*Renxu xuezhì* (the 1922 school system), 366  
 Resolution, 37, 316, 345, 353, 379, 463, 551  
 Restoration, 80, 201, 202, 204–207, 229, 286, 463, 496, 583  
 Revolutionary War, 177, 185  
 Rhind Mathematical Papyrus, 37  
 Riddle culture, 75–76  
 Rigor, 231, 248, 478, 482, 484, 494, 497, 502, 504, 508, 552  
*Rithmomachia*, 112, 119  
 Roman Empire, 49, 109, 129, 241  
 Roman Empire Eastern, 129  
 Roman Empire Western, 109, 129  
 Roots, 31, 33, 64, 65, 74, 86, 90, 94, 99, 158, 185, 187, 221, 266, 270, 271, 277, 292, 295, 307, 314, 341, 345, 348, 363, 375, 379, 382, 400, 401, 405, 408, 425, 437–439, 450, 453, 460, 464, 465, 469, 475, 504, 567, 570, 575  
 Rotations, 136, 425, 469, 480, 482, 484, 488  
 Rote-learning, 105, 264, 409, 410, 447, 451, 566  
 Royaumont seminar, 450–452, 555  
 Rule method, 326, 447  
 Rule of Fellowship, 445  
 Rule of the false position, 95, 147, 434  
 Rule of three, 71, 74, 75, 77, 120, 147, 177, 178, 270, 295, 324, 337, 341, 345, 411, 417, 422, 425, 434, 436–438, 441–442, 444–447, 464, 517, 535  
 Ruler. *See* Straightedge  
 Ruthven Committee, 277
- S**  
 Şadiqi College, 406–408, 413, 415–422, 426, 427  
*Sangaku* (mathematical tablet), 168, 170  
 Sanskrit sources, 86  
 Scalar, 262, 354, 486  
 Scholastic Aptitude Test (SAT), 183, 275, 535  
 Scholasticism, 433  
 Schoolbook analysis, 498  
 School certificate, 266, 267, 395, 502  
 School culture, 6, 297  
 School mathematics, 12, 139, 201, 230, 245, 264, 286, 314, 325, 337, 363, 442, 466, 485, 507, 528, 557, 567, 574 and others  
 School Mathematics Project (SMP), 264, 268, 353, 396, 486, 508  
 School Mathematics Study Group (SMSG), 330, 353, 395, 450, 485, 530, 558, 567  
 School reform of 1931, 348  
 Schools for crafts and trades, 205  
 Schools for girls, 423, 424, 588  
 Schools in monasteries, 337  
 Schools of arts, 613  
 Scientific knowledge, 13, 218, 222, 373, 452

- Scientific-technological revolution, 318  
 Scottish Education Department (SED), 274, 276–279  
 Scottish Mathematics Group (SMG), 277–279  
 Scribal schools, 27, 29–30, 35  
*Scuole d' abbaco*, 431, 432, 448  
*Scuole di Magistero*, 215, 216, 220, 583, 589  
*Scuole di metodo*, 207  
 Secondary Education Expansion, 287  
 Secondary schools, 5, 19, 131, 177, 203, 229, 241, 261, 292, 315, 323, 341, 371, 395, 416, 439, 462, 495, 530, 547, 573 and others  
 Second-degree equations, 293, 295, 460, 463, 464, 466  
 Second Empire, 229, 231  
 Second Republic, 229, 289, 290  
 SED. *See* Scottish Education Department (SED)  
 Self-education, 454  
 Self-strengthening, 159  
 Series, 4, 30, 32, 50, 74, 75, 77, 78, 117, 131, 137, 159, 167, 169, 170, 177, 192, 202, 215, 222, 223, 243, 249, 251, 253, 264, 268, 271, 272, 274, 276, 278, 289, 290, 293, 298, 309, 314, 316, 325, 326, 349, 350, 352, 362, 366, 368–370, 372, 375, 380, 394, 395, 434, 452, 462, 466, 493, 496, 497, 504, 505, 555, 558, 567, 583, 591  
 Set theory, 252, 290, 297, 298, 353, 369, 383, 399, 450, 451, 469, 470, 486, 487  
 Shoushili calendar, 169  
 Similarity, 96, 161, 286, 342, 345, 393, 401, 476, 485, 488  
 Single false position, 120  
 Six arts, 56, 160  
 Slavic-Greek-Latin Academy, 147, 304, 307  
 Slide rule, 262, 565, 570–572  
 SMP. *See* School Mathematics Project (SMP)  
 SMSG. *See* School Mathematics Study Group (SMSG)  
 Socialism, 351, 505  
 Socialist education reform, 351  
 Sociology, 5, 6, 250, 426, 520  
 Solid geometry, 181, 202, 206, 211, 214, 217, 275, 314, 363, 438, 475, 485, 528, 534, 568  
 Sources, 4, 5, 16–20, 27, 28, 38–40, 44, 46, 47, 49, 50, 57, 59, 60–62, 65–67, 70, 86, 87, 91, 95, 97, 100, 103, 104, 109, 110, 114, 120, 143, 146, 153, 156, 158, 169, 186–188, 206, 212, 216, 233, 298, 303, 313, 383, 392, 396, 401, 419, 431–433, 493, 505, 517, 518, 526, 528, 532, 537, 544, 576  
 Spanish America, 186, 189–193, 335, 339, 343  
 Spanish Civil War, 283, 289–290  
 Special Class for the Gifted Young, 371  
 Spens Committee, 266  
*Sphaera*, 117, 118, 135, 475  
 Spherical astronomy, 103, 181  
 Spiral curriculum, 450  
 Sputnik crisis/shock, 448  
 Squared paper, 262, 263, 500, 502, 574  
 Standards era, 331–332  
 State exam(ination), 154, 242, 243, 581, 582, 592  
 State examination system, 154  
 State technical schools, 205, 206  
 Statistics, 19, 208, 225, 237, 238, 268, 278, 297, 317, 367–369, 371, 377, 387, 388, 396, 397, 454, 470, 515, 520, 521, 591, 5140  
 Straightedge, 571–573  
 Student-centered education, 296  
 Student notes, 526, 527  
 Superior College, 66, 67  
 Symmetries, 383, 482, 486  
 System of equations, 170, 465
- T**  
 Tables of reciprocals, 31, 32  
 Tablets, 27–36, 39, 96, 168, 408, 409, 420, 459, 488, 525, 544, 567, 568  
 Tanzimat reform era, 406  
 Taunton Commission, 261  
 Teacher education/training, 5, 12, 13, 133, 134, 143, 145, 207, 215, 216, 220–225, 231, 246, 252, 253, 262, 264, 265, 296, 298, 308, 354, 374, 386–388, 397, 399–401, 407, 444, 499, 528, 537, 546, 559, 579–593  
 Teacher examinations, 247, 296  
 Teachers colleges, 143, 327, 328, 371  
 Teachers' Seminary, 308, 313, 583  
 Teaching at courts, 87–88  
 Teaching methodology, 307, 313, 346, 349, 449, 505  
 Technical education, 56, 69, 207–209, 272, 293, 297, 318, 519, 520  
 Technical-professional education, 205–206  
*Technische Hochschulen*, 448, 479, 499, 516, 522  
 Technology, 21, 49, 138, 159, 186, 187, 272, 298, 351, 362, 371–374, 498, 518, 520, 522, 528, 531, 533, 535, 537, 543, 547, 560, 565–571, 576  
 Techno-mathematical literacy, 522  
*Telescola*, 297, 528  
 Texas method. *See* Moore method  
 Textbook, 3, 10, 32, 56, 86, 119, 132, 154, 192, 203, 249, 261, 285, 304, 325, 340, 363, 393, 410, 431, 459, 474, 493, 518, 525, 547, 566, 577 and others  
 Theoretical categories, 4, 12, 13  
 Theory of education, 438  
 Third-degree equations, 460, 468  
 Third Republic, 229, 231, 548, 2256  
 Three (astrological) schemes, 67  
*Tianyuan* method, 159, 161, 162, 169  
*Tongwenguan* (Interpreters' College), 159  
 Topography, 211, 250, 287, 394  
 Traditional education, 392, 394  
 Traditional mathematics, 238, 383, 392, 395, 495  
 Traditional teaching, 246, 411–412, 498, 525  
 Tralles-Süvern-Plan, 243  
 Transfer of training, 448  
 Transformation geometry, 265, 268, 383, 387  
 Transformations, 11, 40, 93, 112, 145, 154, 166, 170, 183, 213, 220, 225, 265, 268, 284, 285, 309, 319, 354, 372, 378, 383, 387, 393, 405, 463, 469, 470, 482, 484, 486–488, 501, 502, 525, 526

Translations, 27, 35, 37, 49, 50, 57, 60, 61, 79, 85–87, 93, 94, 103, 111, 113–116, 135, 145, 147, 159, 163, 165, 166, 205–207, 212, 270, 287–288, 290–293, 304, 337, 340, 342, 347, 350, 353, 370, 377–379, 381, 382, 384, 413, 415, 418–421, 425, 432, 462, 466, 469, 474, 477, 478, 480–482, 484, 496, 504, 547, 550

Transmission, 12, 27, 31, 35, 38–40, 59–65, 72, 77, 91, 166, 170, 176, 186, 187, 243, 264, 327, 338, 462, 463, 518, 548, 570, 714

Transmission of knowledge, 41, 72, 243

*Trivium*, 116, 131, 145, 241, 243, 460, 474

Twenty operations (*parikarman*), 75

## U

*Ulema*, 406–409, 411, 412, 419

UNESCO. *See* United Nations Educational, Scientific and Cultural Organization (UNESCO)

Unification, 155, 204–209, 216, 218, 225, 517, 583

Unified mathematics, 59, 60

Unified Silla, 64

United Nations Educational, Scientific and Cultural Organization (UNESCO), 252, 543, 554–557, 559, 560

University of Coimbra, 292, 293

University of Salamanca, 285–286

Upper primary school, 230–232, 234–236, 365, 387

Usefulness of mathematics, 42

*Uyez*d (district) schools, 309, 310

## V

van Hiele's levels, 488

Vector, 237, 252, 262, 266, 354, 373, 396, 397, 425, 469, 470, 486, 487

Vedic Mathematics, 382

Vedic period, 71, 72, 77, 79

Vernacular Translation Societies, 377, 378

*Vichy Régime*, 236

Vocational mathematics, 515–523

Vocational schools, 316, 351, 419, 437, 517, 518, 590, 591

Vulgar fractions, 163, 270, 273, 445

## W

*Wasan*, 167

West Point, 326, 446, 478, 532, 534, 535

Winchester, 260, 262, 266

Winnetka Plan, 448

Workforce, 237, 239, 330, 351, 519, 521

Worldly mathematics, 73–75

World problems, 466

Writing schools, 189, 191, 270–271, 273

Written exams, 217, 536

## Z

Zaytūna, 408–415, 417, 421