

List of Publications of Paul Erdős, January 2013

This bibliography was prepared by Jerrold Grossman (Oakland University, Rochester, Michigan), updating previous bibliographies, most recently the list prepared by Dezső Miklós in *Combinatorics, Paul Erdős is Eighty, Volume 1, Bolyai Society Mathematical Studies*, pp. 471–527, János Bolyai Mathematical Society, Budapest, 1993. Thanks are due not only to Dezső Miklós (Mathematical Institute, Hungarian Academy of Sciences) and the János Bolyai Mathematical Society, but also to László Babai (University of Chicago), Ronald Graham (AT&T Research), Patrick Ion (*Mathematical Reviews*), and Jaroslav Nešetřil (Charles University, Prague) for additional advice and data, *Zentralblatt für Mathematik und Ihre Grenzgebiete* for providing the Zbl numbers and making other additions and corrections, Springer-Verlag for the preparation of this list in its final form, and Paul Erdős for several helpful conversations.

Generally, the bibliographic style of *Mathematical Reviews* has been followed, at least approximately. Coauthor names, if any, are given in parentheses near the end of each entry. The *Mathematical Reviews* review number (**MR**) is included with each item for which it exists; otherwise, the *Current Mathematical Publications* control number (**CMP**) is included when it exists. Similarly, the **Zbl** numbers are provided where possible. This list incorporates corrections of some errors and omissions that appeared in the 1993 list (for example, the omission of Turán as a coauthor of the last paper listed for 1935). In some cases items have been shifted to a different year to reflect more accurately the actual publication date. Items have necessarily been renumbered in order to maintain a year-by-year list, alphabetical by title. *Please send further additions or corrections to grossman@oakland.edu.*

This list as it existed in early 1996 was included in *The Mathematics of Paul Erdős*, R. L. Graham and J. Nešetřil, eds., Volume II, pp. 477–573 (Springer, 1997). Updates beyond that are posted on the World Wide Web site of the Erdős Number Project: <http://www.oakland.edu/enp>. That site also contains more complete versions of the names of the coauthors.

- 1932.01 Beweis eines Satzes von Tschebyschef (in German), *Acta Litt. Sci. Szeged* **5** (1932), 194–198; **Zbl.** 4,101.
- 1932.02 Egy Kürschák-féle elemi számelméleti tétel általánosítása (Generalization of an elementary number-theoretic theorem of Kürschák, in Hungarian), *Mat. Fiz. Lapok* **39** (1932), 17–24; **Zbl.** 7,103.
- 1934.01 A theorem of Sylvester and Schur, *J. London Math. Soc.* **9** (1934), 282–288; **Zbl.** 10,103.
- 1934.02 Bizonyos számtani sorok törzsszámairól (On primes in some arithmetic progressions, in Hungarian), *Bölcsészdoktori értekezés, Sárospatak*, 1934, 1–20.
- 1934.03 On a problem in the elementary theory of numbers, *Amer. Math. Monthly* **41** (1934), 608–611 (P. Turán); **Zbl.** 10,294.
- 1934.04 On the density of the abundant numbers, *J. London Math. Soc.* **9** (1934), 278–282; **Zbl.** 10,103.
- 1934.05 Über die Anzahl der Abelschen Gruppen gegebener Ordnung und über ein verwandtes zahlentheoretisches Problem (in German), *Acta Litt. Sci. Szeged* **7** (1934), 95–102 (G. Szekeres); **Zbl.** 10,294.
- 1935.01 A combinatorial problem in geometry, *Compositio Math.* **2** (1935), 463–470 (G. Szekeres); **Zbl.** 12,270.
- 1935.02 Ein zahlentheoretischer Satz (in German), *Mitt. Forsch.-Inst. Math. Mech. Univ. Tomsk* **1** (1935), 101–103 (P. Turán); **Zbl.** 12,12.
- 1935.03 Note on consecutive abundant numbers, *J. London Math. Soc.* **10** (1935), 128–131; **Zbl.** 12,11.
- 1935.04 Note on sequences of integers no one of which is divisible by any other, *J. London Math. Soc.* **10** (1935), 126–128; **Zbl.** 12,52.
- 1935.05 On primitive abundant numbers, *J. London Math. Soc.* **10** (1935), 49–58; **Zbl.** 10,391.
- 1935.06 On the density of some sequences of numbers, *J. London Math. Soc.* **10** (1935), 120–125; **Zbl.** 12,10.
- 1935.07 On the difference of consecutive primes, *Quart. J. Math., Oxford Ser.* **6** (1935), 124–128; **Zbl.** 12,11.
- 1935.08 On the normal number of prime factors of $p - 1$ and some related problems concerning Euler's φ -function, *Quart. J. Math., Oxford Ser.* **6** (1935), 205–213; **Zbl.** 12,149.
- 1935.09 The representation of an integer as the sum of the square of a prime and of a square-free integer, *J. London Math. Soc.* **10** (1935), 243–245; **Zbl.** 13,104.
- 1935.10 Über die Primzahlen gewisser arithmetischer Reihen (in German), *Math. Z.* **39** (1935), 473–491; **Zbl.** 10,293.
- 1935.11 Über die Vereinfachung eines Landauschen Satzes (in German), *Mitt. Forsch.-Inst. Math. Mech. Univ. Tomsk* **1** (1935), 144–147 (P. Turán); **Zbl.** 13,6.
- 1936.01 A generalization of a theorem of Besicovitch, *J. London Math. Soc.* **11** (1936), 92–98; **Zbl.** 14,11.

- 1936.02 Note on some additive properties of integers, *Publ. de Congrès International des Math.*, Oslo, 1936, 1–2.
- 1936.03 On a problem of Chowla and some related problems, *Proc. Cambridge Philos. Soc.* **32** (1936), 530–540; **Zbl.** 15,246.
- 1936.04 On sequences of positive integers, *Acta Arith.* **2** (1936), 147–151 (H. Davenport); **Zbl.** 15,100.
- 1936.05 On some sequences of integers, *J. London Math. Soc.* **11** (1936), 261–264 (P. Turán); **Zbl.** 15,152.
- 1936.06 On the arithmetical density of the sum of two sequences one of which forms a basis for the integers, *Acta Arith.* **1** (1936), 197–200; **Zbl.** 13,150.
- 1936.07 On the integers which are the totient of a product of three primes, *Quart. J. Math., Oxford Ser.* **7** (1936), 16–19; **Zbl.** 13,246.
- 1936.08 On the integers which are the totient of a product of two primes, *Quart. J. Math., Oxford Ser.* **7** (1936), 227–229; **Zbl.** 15,5.
- 1936.09 On the representation of an integer as the sum of k k th powers, *J. London Math. Soc.* **11** (1936), 133–136; **Zbl.** 13,390.
- 1936.10 Sur le mode de convergence pour l'interpolation de Lagrange (in French), *C. R. Acad. Sci. Paris* **203** (1936), 913–915 (E. Feldheim); **Zbl.** 15,252.
- 1936.11 Végtelen gráfok Euler vonalairól (On Euler lines of infinite graphs, in Hungarian), *Mat. Fiz. Lapok* **43** (1936), 129–140 (T. Grünwald [=T. Gallai]; E. Weiszfeld [=E. Vázsonyi]); **Zbl.** 15,178.
- 1937.01 Eine Bemerkung über lineare Kongruenzen (in German), *Acta Arith.* **2** (1937), 214–220 (V. Jarník); **Zbl.** 18,6.
- 1937.02 Note on the number of prime divisors of integers, *J. London Math. Soc.* **12** (1937), 308–314; **Zbl.** 17,246.
- 1937.03 Note on the transfinite diameter, *J. London Math. Soc.* **12** (1937), 185–192 (J. Gillis); **Zbl.** 17,115.
- 1937.04 On interpolation, I. Quadrature and mean convergence in the Lagrange interpolation, *Ann. of Math. (2)* **38** (1937), 142–155 (P. Turán); **Zbl.** 16,106.
- 1937.05 On the density of some sequences of numbers, II., *J. London Math. Soc.* **12** (1937), 7–11; **Zbl.** 16,12.
- 1937.06 On the easier Waring problem for powers of primes, I., *Proc. Cambridge Philos. Soc.* **33** (1937), 6–12; **Zbl.** 16,102.
- 1937.07 On the sum and difference of squares of primes, *J. London Math. Soc.* **12** (1937), 133–136; **Zbl.** 16,201.
- 1937.08 On the sum and difference of squares of primes, II., *J. London Math. Soc.* **12** (1937), 168–171; **Zbl.** 17,103.
- 1937.09 Über diophantische Gleichungen der Form $n! = x^p \pm y^p$ und $n! \pm m! = x^p$ (in German), *Acta Litt. Sci. Szeged* **8** (1937), 241–255 (R. Obláth); **Zbl.** 17,4.
- 1938.01 Note on an elementary problem of interpolation, *Bull. Amer. Math. Soc.* **44** (1938), 515–518 (G. Grünwald); **Zbl.** 19,111.

- 1938.02 Note on the Euclidean algorithm, *J. London Math. Soc.* **13** (1938), 3–8 (Chao Ko [=Zhao Ke]); **Zbl.** 18,106.
- 1938.03 On additive properties of squares of primes, I., *Nederl. Akad. Wetensch., Proc.* **41** (1938), 37–41; **Zbl.** 23,9.
- 1939.04 On definite quadratic forms which are not the sum of two definite or semi-definite forms, *Acta Arith.* **3** (1938), 102–122 (Chao Ko [=Zhao Ke]); **Zbl.** 19,151.
- 1938.05 On fundamental functions of Lagrangean interpolation, *Bull. Amer. Math. Soc.* **44** (1938), 828–834 (B. A. Lengyel); **Zbl.** 20,12.
- 1938.06 On interpolation, II. On the distribution of the fundamental points of Lagrange and Hermite interpolation, *Ann. of Math. (2)* **39** (1938), 703–724 (P. Turán); **Zbl.** 19,404.
- 1938.07 On sequences of integers no one of which divides the product of two others and on some related problems, *Mitt. Forsch.-Inst. Math. Mech. Univ. Tomsk* **2** (1938), 74–82; **Zbl.** 20,5.
- 1938.08 On the asymptotic density of the sum of two sequences one of which forms a basis for the integers, II., *Trav. Inst. Math. Tbilissi* **3** (1938), 217–223; **Zbl.** 19,104.
- 1938.09 On the density of some sequences of numbers, III., *J. London Math. Soc.* **13** (1938), 119–127; **Zbl.** 18,293.
- 1938.10 On the number of integers which can be represented by a binary form, *J. London Math. Soc.* **13** (1938), 134–139 (K. Mahler); **Zbl.** 18,344.
- 1938.11 Some results on definite quadratic forms, *J. London Math. Soc.* **13** (1938), 217–224 (Chao Ko [=Zhao Ke]); **Zbl.** 19,151.
- 1937.12 Über die arithmetischen Mittelwerte der Lagrangeschen Interpolationspolynome (in German), *Studia Math.* **7** (1938), 82–95 (G. Grünwald); **Zbl.** 18,118.
- 1938.13 Über die Reihe $\sum \frac{1}{p}$ (in German), *Mathematica, Zutphen B* **7** (1938), 1–2; **Zbl.** 18,343.
- 1938.14 Über einen Faber'schen Satz (in German), *Ann. of Math. (2)* **39** (1938), 257–261 (G. Grünwald); **Zbl.** 18,397.
- 1938.15 Über Euler-Linien unendlicher Graphen (in German), *J. Math. Phys. Mass. Inst. Tech.* **17** (1938), 59–75 (T. Grünwald [=T. Gallai]; E. Vázsonyi); **Zbl.** 19,236.
- 1939.01 Additive arithmetical functions and statistical independence, *Amer. J. Math.* **61** (1939), 713–721 (A. Wintner); **MR** 1,40c; **Zbl.** 22,9.
- 1939.02 An extremum-problem concerning trigonometric polynomials, *Acta Litt. Sci. Szeged* **9** (1939), 113–115; **Zbl.** 21,17.
- 1939.03 Note on products of consecutive integers, *J. London Math. Soc.* **14** (1939), 194–198; **MR** 1,4e; **Zbl.** 21,207.
- 1939.04 Note on the product of consecutive integers, II., *J. London Math. Soc.* **14** (1939), 245–249; **MR** 1,39d; **Zbl.** 26,388.

- 1939.05 On a family of symmetric Bernoulli convolutions, *Amer. J. Math.* **61** (1939), 974–976; **MR** 1,52a; **Zbl.** 22,354.
- 1939.06 On polynomials with only real roots, *Ann. of Math. (2)* **40** (1939), 537–548 (T. Grünwald = [T. Gallai]); **MR** 1,1g; **Zbl.** 21,395.
- 1939.07 On sums of positive integral k th powers, *Ann. of Math. (2)* **40** (1939), 533–536 (H. Davenport); **MR** 1,5d; **Zbl.** 21,207.
- 1939.08 On the easier Waring problem for powers of primes, II., *Proc. Cambridge Philos. Soc.* **35** (1939), 149–165; **Zbl.** 21,106.
- 1939.09 On the Gaussian law of errors in the theory of additive functions, *Proc. Nat. Acad. Sci. U. S. A.* **25** (1939), 206–207 (M. Kac); **Zbl.** 21,207.
- 1939.10 On the integers of the form $x^k + y^k$, *J. London Math. Soc.* **14** (1939), 250–254; **MR** 1,42b; **Zbl.** 26,297.
- 1939.11 On the smoothness of the asymptotic distribution of additive arithmetical functions, *Amer. J. Math.* **61** (1939), 722–725; **MR** 1,41a; **Zbl.** 22,10.
- 1939.12 Some arithmetical properties of the convergents of a continued fraction, *J. London Math. Soc.* **14** (1939), 12–18 (K. Mahler); **Zbl.** 20,294.
- 1940.01 Additive functions and almost periodicity (B^2), *Amer. J. Math.* **62** (1940), 635–645 (A. Wintner); **MR** 2,41f; **Zbl.** 24,16.
- 1940.02 Note on some elementary properties of polynomials, *Bull. Amer. Math. Soc.* **46** (1940), 954–958; **MR** 2,242b; **Zbl.** 24,306.
- 1940.03 On a conjecture of Steinhaus, *Univ. Nac. Tucumán. Revista A.* **1** (1940), 217–220; **MR** 2,360c; **Zbl.** 25,158.
- 1940.04 On extremal properties of the derivatives of polynomials, *Ann. of Math. (2)* **41** (1940), 310–313; **MR** 1,323g; **Zbl.** 24,4.
- 1940.05 On interpolation, III. Interpolatory theory of polynomials, *Ann. of Math. (2)* **41** (1940), 510–553 (P. Turán); **MR** 1,333e; **Zbl.** 24,391.
- 1940.06 On the distribution of normal point groups, *Proc. Nat. Acad. Sci. U. S. A.* **26** (1940), 294–297; **MR** 1,333f; **Zbl.** 63,Index.
- 1940.07 On the smoothness properties of a family of Bernoulli convolutions, *Amer. J. Math.* **62** (1940), 180–186; **MR** 1,139e; **Zbl.** 22,354.
- 1940.08 On the uniformly-dense distribution of certain sequences of points, *Ann. of Math. (2)* **41** (1940), 162–173 (P. Turán); **MR** 1,217c; **Zbl.** 23,22.
- 1940.09 Ramanujan sums and almost periodic functions, *Studia Math.* **9** (1940), 43–53 (M. Kac; E. R. van Kampen; A. Wintner); **MR** 3,69f; **Zbl.** 63,Index.
- 1940.10 The difference of consecutive primes, *Duke Math. J.* **6** (1940), 438–441; **MR** 1,292h; **Zbl.** 23,298.
- 1940.11 The dimension of the rational points in Hilbert space, *Ann. of Math. (2)* **41** (1940), 734–736; **MR** 2,178a; **Zbl.** 25,187.

- 1940.12 The Gaussian law of errors in the theory of additive number theoretic functions, *Amer. J. Math.* **62** (1940), 738–742 (M. Kac); **MR** 2,42c; **Zbl.** 24,102.
- 1941.01 On a problem of Sidon in additive number theory and on some related problems, *J. London Math. Soc.* **16** (1941), 212–215 (P. Turán); **MR** 3,270e; **Zbl.** 61,73.
- 1941.02 On divergence properties of the Lagrange interpolation parabolas, *Ann. of Math. (2)* **42** (1941), 309–315; **MR** 2,283d; **Zbl.** 24,307.
- 1941.03 On some asymptotic formulas in the theory of the “factorisatio numerorum”, *Ann. of Math. (2)* **42** (1941), 989–993; **MR** 3,165b; **Zbl.** 61,79.
- 1941.04 The distribution of the number of summands in the partitions of a positive integer, *Duke Math. J.* **8** (1941), 335–345 (J. Lehner); **MR** 3,69a; **Zbl.** 25,107.
- 1942.01 On a problem of I. Schur, *Ann. of Math. (2)* **43** (1942), 451–470 (G. Szegő); **MR** 4,41d; **Zbl.** 60,55.
- 1942.02 On an elementary proof of some asymptotic formulas in the theory of partitions, *Ann. of Math. (2)* **43** (1942), 437–450; **MR** 4,36a; **Zbl.** 61,79.
- 1942.03 On the asymptotic density of the sum of two sequences, *Ann. of Math. (2)* **43** (1942), 65–68; **MR** 3,165c.
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- 1942.05 On the uniform distribution of the roots of certain polynomials, *Ann. of Math. (2)* **43** (1942), 59–64; **MR** 3,236a; **Zbl.** 60,55.
- 1942.06 Some set-theoretical properties of graphs, *Univ. Nac. Tucumán. Revista A.* **3** (1942), 363–367; **MR** 5,151d; **Zbl.** 63,Index.
- 1943.01 A note on Farey series, *Quart. J. Math., Oxford Ser.* **14** (1943), 82–85; **MR** 5,236b; **Zbl.** 61,128.
- 1943.02 Approximation by polynomials, *Duke Math. J.* **10** (1943), 5–11 (J. A. Clarkson); **MR** 4,196e; **Zbl.** 63,Index.
- 1943.03 Corrections to two of my papers, *Ann. of Math. (2)* **44** (1943), 647–651; **MR** 5,172c and 5,180d; **Zbl.** 61,79 and 63,Index.
- 1943.04 On families of mutually exclusive sets, *Ann. of Math. (2)* **44** (1943), 315–329 (A. Tarski); **Zbl.** 60,126.
- 1943.05 On non-denumerable graphs, *Bull. Amer. Math. Soc.* **49** (1943), 457–461 (S. Kakutani); **MR** 4,249f; **Zbl.** 63,Index.
- 1943.06 On some convergence properties in the interpolation polynomials, *Ann. of Math. (2)* **44** (1943), 330–337; **MR** 4,273e; **Zbl.** 63,Index.
- 1943.07 On the convergence of trigonometric series, *J. Math. Phys. Mass. Inst. Tech.* **22** (1943), 37–39; **MR** 4,271e; **Zbl.** 60,178.
- 1943.08 Some remarks on set theory, *Ann. of Math. (2)* **44** (1943), 643–646; **MR** 5,173c; **Zbl.** 60,131.
- 1944.01 A conjecture in elementary number theory, *Bull. Amer. Math. Soc.* **50** (1944), 881–882 (L. Alaoglu); **MR** 6,117b; **Zbl.** 61,78.

- 1944.02 Addendum. On a problem of Sidon in additive number theory and on some related problems [*J. London Math. Soc.* **16** (1941), 212–215], *J. London Math. Soc.* **19** (1944), 208; **MR** 7,242f; **Zbl.** 61,73.
- 1944.03 On highly composite and similar numbers, *Trans. Amer. Math. Soc.* **56** (1944), 448–469 (L. Alaoglu); **MR** 6,117c; **Zbl.** 61,79.
- 1944.04 On highly composite numbers, *J. London Math. Soc.* **19** (1944), 130–133; **MR** 7,145d; **Zbl.** 61,79.
- 1944.05 On the maximum of the fundamental functions of the ultraspherical polynomials, *Ann. of Math. (2)* **45** (1944), 335–339; **MR** 5,264e; **Zbl.** 63,Index.
- 1944.06 Some remarks on connected sets, *Bull. Amer. Math. Soc.* **50** (1944), 442–446; **MR** 6,43a; **Zbl.** 61,401.
- 1945.01 Integral distances, *Bull. Amer. Math. Soc.* **51** (1945), 598–600 (N. H. Anning); **MR** 7,164a; **Zbl.** 63,Index.
- 1945.02 Integral distances, *Bull. Amer. Math. Soc.* **51** (1945), 996; **MR** 7,164b; **Zbl.** 63,Index.
- 1945.03 Note on the converse of Fabry’s gap theorem, *Trans. Amer. Math. Soc.* **57** (1945), 102–104; **MR** 6,148f; **Zbl.** 60,203.
- 1945.04 On a lemma of Littlewood and Offord, *Bull. Amer. Math. Soc.* **51** (1945), 898–902; **MR** 7,309j; **Zbl.** 63,Index.
- 1945.05 On certain variations of the harmonic series, *Bull. Amer. Math. Soc.* **51** (1945), 433–436 (I. Niven); **MR** 7,11i; **Zbl.** 61,129.
- 1945.06 On the least primitive root of a prime p , *Bull. Amer. Math. Soc.* **51** (1945), 131–132; **MR** 6,170b; **Zbl.** 61,66.
- 1945.07 Some remarks on almost periodic transformations, *Bull. Amer. Math. Soc.* **51** (1945), 126–130 (A. H. Stone); **MR** 6,165b; **Zbl.** 63,Index.
- 1945.08 Some remarks on Euler’s φ -function and some related problems, *Bull. Amer. Math. Soc.* **51** (1945), 540–544; **MR** 7,49f; **Zbl.** 61,80.
- 1945.09 Some remarks on the measurability of certain sets, *Bull. Amer. Math. Soc.* **51** (1945), 728–731; **MR** 7,197f; **Zbl.** 63,Index.
- 1946.01 Note on normal numbers, *Bull. Amer. Math. Soc.* **52** (1946), 857–860 (A. H. Copeland); **MR** 8,194b; **Zbl.** 63,Index.
- 1946.02 On certain limit theorems of the theory of probability, *Bull. Amer. Math. Soc.* **52** (1946), 292–302 (M. Kac); **MR** 7,459b; **Zbl.** 63,Index.
- 1946.03 On sets of distances of n points, *Amer. Math. Monthly* **53** (1946), 248–250; **MR** 7,471c; **Zbl.** 60,348.
- 1946.04 On some asymptotic formulas in the theory of partitions, *Bull. Amer. Math. Soc.* **52** (1946), 185–188; **MR** 7,273i; **Zbl.** 61,79.
- 1946.05 On the coefficients of the cyclotomic polynomial, *Bull. Amer. Math. Soc.* **52** (1946), 179–184; **MR** 7,242e; **Zbl.** 61,18.
- 1946.06 On the distribution function of additive functions, *Ann. of Math. (2)* **47** (1946), 1–20; **MR** 7,416c; **Zbl.** 61,79.

- 1946.07 On the Hausdorff dimension of some sets in Euclidean space, *Bull. Amer. Math. Soc.* **52** (1946), 107–109; **MR** 7,377a; **Zbl.** 63,Index.
- 1946.08 On the structure of linear graphs, *Bull. Amer. Math. Soc.* **52** (1946), 1087–1091 (A. H. Stone); **MR** 8,333b; **Zbl.** 63,Index.
- 1946.09 Sequences of plus and minus, *Scripta Math.* **12** (1946), 73–75 (I. Kaplansky); **MR** 8,126i; **Zbl.** 60,29.
- 1946.10 Some properties of partial sums of the harmonic series, *Bull. Amer. Math. Soc.* **52** (1946), 248–251 (I. Niven); **MR** 7,413e; **Zbl.** 61,65.
- 1946.11 Some remarks about additive and multiplicative functions, *Bull. Amer. Math. Soc.* **52** (1946), 527–537; **MR** 7,507g; **Zbl.** 61,79.
- 1946.12 The asymptotic number of Latin rectangles, *Amer. J. Math.* **68** (1946), 230–236 (I. Kaplansky); **MR** 7,407b; **Zbl.** 60,28.
- 1946.13 The $\alpha + \beta$ hypothesis and related problems, *Amer. Math. Monthly* **53** (1946), 314–317 (I. Niven); **MR** 7,507f.
- 1946.14 Toeplitz methods which sum a given sequence, *Bull. Amer. Math. Soc.* **52** (1946), 463–464 (P. C. Rosenbloom); **MR** 8,146i; **Zbl.** 61,121.
- 1947.01 A note on transforms of unbounded sequences, *Bull. Amer. Math. Soc.* **53** (1947), 787–790 (G. Piranian); **MR** 9,234b; **Zbl.** 31,294.
- 1947.02 On the connection between gaps in power series and the roots of their partial sums, *Trans. Amer. Math. Soc.* **62** (1947), 53–61 (H. Fried); **MR** 9,84f; **Zbl.** 32,65.
- 1947.03 On the lower limit of sums of independent random variables, *Ann. of Math. (2)* **48** (1947), 1003–1013 (K.-L. Chung); **MR** 9,292f; **Zbl.** 29,152.
- 1947.04 On the number of positive sums of independent random variables, *Bull. Amer. Math. Soc.* **53** (1947), 1011–1020 (M. Kac); **MR** 9,292g; **Zbl.** 32,35.
- 1947.05 Over-convergence on the circle of convergence, *Duke Math. J.* **14** (1947), 647–658 (G. Piranian); **MR** 9,232e; **Zbl.** 30,152.
- 1947.06 Some asymptotic formulas for multiplicative functions, *Bull. Amer. Math. Soc.* **53** (1947), 536–544; **MR** 9,12d; **Zbl.** 37,311.
- 1947.07 Some remarks and corrections to one of my papers, *Bull. Amer. Math. Soc.* **53** (1947), 761–763; **MR** 9,12e.
- 1947.08 Some remarks on polynomials, *Bull. Amer. Math. Soc.* **53** (1947), 1169–1176; **MR** 9,281g; **Zbl.** 32,386.
- 1947.09 Some remarks on the theory of graphs, *Bull. Amer. Math. Soc.* **53** (1947), 292–294; **MR** 8,479d; **Zbl.** 32,192.
- 1948.01 On a combinatorial problem, *Nederl. Akad. Wetensch., Proc.* **51** (1948), 1277–1279 = *Indag. Math.* **10** (1948), 421–423 (N. G. de Bruijn); **MR** 10,424a; **Zbl.** 32,244.
- 1948.02 On a problem in the theory of uniform distribution, I., *Nederl. Akad. Wetensch., Proc.* **51** (1948), 1146–1154 = *Indag. Math.* **10** (1948), 370–478 (P. Turán); **MR** 10,372c; **Zbl.** 31,254.

- 1948.03 On a problem in the theory of uniform distribution, II., *Nederl. Akad. Wetensch., Proc.* **51** (1948), 1262–1269 = *Indag. Math.* **10** (1948), 406–413 (P. Turán); **MR** 10,372d; **Zbl.** 32,16.
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- 1948.05 On some new questions on the distribution on prime numbers, *Bull. Amer. Math. Soc.* **54** (1948), 371–378 (P. Turán); **MR** 9,498k; **Zbl.** 32,269.
- 1948.06 On the density of some sequences of integers, *Bull. Amer. Math. Soc.* **54** (1948), 685–692; **MR** 10,105b; **Zbl.** 32,13.
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Note: The total number of items in this list is 1,525.

Postscript

It is fitting that Paul Erdős himself should have the last word. As is amply illustrated in this collection, Paul's profound influence on so many mathematicians and fields of mathematics through his prolific research and incessant traveling is destined to leave a legacy that may never be equalled. Here then are some very special lines written by Paul for the Postscript of these volumes:

“Determine or estimate as well as you can the number of solutions in positive integers of

$$\frac{1}{x_1} + \frac{1}{x_2} + \cdots + \frac{1}{x_k} = 1, \quad x_1 < x_2 < \cdots < x_k.$$

Can the squares be decomposed as the finite union of sum-free sets (or Sidon) sequences? Apologies if this is trivial or trivially false. Let x_1, \dots, x_n be n points in the plane with at most t on a line (t fixed, n large). $f(n; t)$ is defined to be size of the largest subset with no three on a line. We can only prove

$$c_2 \sqrt{\frac{n}{t}} < f(n; t) < \frac{c_1 n}{t}.$$

The lower bound is easy by the greedy algorithm. Füredi showed

$$f(n; t) > g(n) \sqrt{\frac{n}{t}}$$

where $g(n) \rightarrow \infty$ slowly. What is the truth here?

(Erdős–Turán.) Let $p_{n+1} - p_n = d_n$. Prove that for infinitely many n ,

$$d_n > d_{n+1} > d_{n+2} \text{ or } d_n < d_{n+1} < d_{n+2}.$$

This surely holds since if not, then there is an n for which

$$d_n \geq d_{n+1}, d_{n+1} \leq d_{n+2}, d_{n+2} \geq d_{n+3}, \dots, \text{ etc.}$$

I offer 100 dollar for a proof and 25000 dollar for a counterexample. This is of course a joke since the conjecture surely holds.

If I live I hope to have some more conjectures and even proofs. Will there be a celebration for my 90th birthday or only a meeting for my memory. May my theorems and problems live forever

My mother was very glad to read the many eulogies written for my 50. th birthday. I am only sorry that my mother and father are not reading this volume (if you believe in survival after death then you can believe that perhaps they are reading it). Let me add another problem: In 1934 Turán and I proved (Amer Math Monthly 1934): Let $a_1 < a_2 < \dots < a_n$ be any set of n integers. Then the number of distinct prime factors of $\prod_{1 \leq i < j \leq n} (a_i + a_j)$ is greater than $c \log n$. It does not have

to be greater than $\frac{c n}{\log n}$ (trivially). Try to improve both the upper and lower bounds. I offer 500 dollar for this.

I offer \$100 for a proof and \$25,000 for a counterexample. This of course is a joke since the conjecture surely holds.

If I live I hope to have some more conjectures and even proofs. Will there be a celebration for my 90th birthday or only a meeting for my memory. May my theorems and problems live forever.

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greater than $c \log n$. It does not have to be greater than $\frac{cn}{\log n}$ (trivially). Try to improve both the upper and lower bounds. I offer 500 dollars for this.”

The preceding lines are some of the last lines written by Paul Erdős. They not only represent a fitting conclusion to these volumes but they capture Paul’s style and his vision of life as a scholar, a style which influenced us all from around the world, a world which will not be the same without him.