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List of Symbols

$\sum_{n \geq 1} a_n$	3
$\sum_{n \geq 1} (-1)^{n+1} a_n$	14
$\sum_{n \geq 1} a_n x^n$	41
$\sum_{n \geq 1} \frac{f^{(n)}(a)}{n!} (x - a)^n$	49
$\sum_{n \geq 1} \frac{f^{(n)}(0)}{n!} x^n$	50
$\lim_{n \rightarrow \infty} \sum_{k=0}^n a_k x^k$	60
f'_x	72
f''_x	72
df	83
$d^2 f$	83
$df(x_0, y_0)(h, k)$	91
$df(x_0, y_0, z_0)(h, k, r)$	91
$J_f(a)$	93
$\frac{D(f_1, f_2, f_3)}{D(x, y, z)}$	97
$f(x_0 + h, y_0 + k)$	127
$\frac{\partial z}{\partial s}$	157
$\text{grad } \varphi$	163
$\text{div } \vec{v}$	163
$\text{rot } \vec{v}$	164
$\int \frac{P(x)}{Q(x)} dx$	245
$\int R(\sin x, \cos x) dx$	251

$$\int x^m (ax^n + b)^p dx, 252$$

$$x_G, 277, 433$$

$$y_G, 277, 433$$

$$P(\lambda), 349$$

$$y_o(x), 357$$

$$y_p(x), 357$$

$$Y^o(x), 378$$

$$Y^p(x), 378$$

$$\int_{AB} f(x, y, z) ds, 395$$

$$\rho(x, y, z), 396$$

$$\int_C P(x, y) dx + Q(x, y) dy, 406$$

$$\vec{F}(x, y, z), 407$$

$$\oint x dy, 407$$

$$\int_C \int_D f(x, y) dx dy, 421$$

$$I_x, 436, 510$$

$$\int \int \int_V f(x, y, z) dx dy dz, 475$$

$$\int_{\Sigma} f(x, y, z) d\sigma, 512$$

$$\Sigma_+, 520$$

$$\Sigma_-, 520$$

$$\vec{n}, 520$$

$$\int \int_{\Sigma_+} P(x, y, z) dy dz + Q(x, y, z) dz dx + R(x, y, z) dx dy, 520$$

$$\cos\alpha, \cos\beta, \cos\gamma, 520, 521$$

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