Function	Series	Sum	Derived From
$\frac{1}{\sin x}$	$x - \frac{x^3}{3!} + \frac{x^5}{5!} + \cdots$	$\sum_{k=0}^{\infty} \frac{(-1)^k x^{2k+1}}{(2k+1)!}$	raw
$\cos x$	$1 - \frac{x^2}{2!} + \frac{x^4}{4!} + \cdots$	$\sum_{k=0}^{\infty} \frac{(-1)^k x^{2k}}{(2k)!}$	raw
$e^x$	$1 + x + \frac{x^2}{2!} + \frac{x^3}{3!} + \cdots$		raw
$\frac{1}{1-x}$	$1 + x + x^2 + x^3 + \cdots$	$\sum_{k=0}^{\infty} (-x)^k$	geometric series

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