

$f(x)$	Sviluppo di McLaurin	Serie di Taylor	Con
x^k	$1 + x + \frac{x^2}{2} + \frac{x^3}{6} + \frac{x^4}{24} + \mathcal{O}(x^4) (x \rightarrow 0)$	$\sum_{n=0}^{\infty} \frac{x^n}{n!}$	$(-\infty, \infty)$
$\sin x$	$x - \frac{x^3}{6} + \frac{x^5}{120} + \mathcal{O}(x^5) (x \rightarrow 0)$	$\sum_{n=0}^{\infty} \frac{(-1)^n x^{2n+1}}{(2n+1)!}$	$(-\infty, \infty)$
$\cos x$	$1 - \frac{x^2}{2} + \frac{x^4}{24} + \mathcal{O}(x^4) (x \rightarrow 0)$	$\sum_{n=0}^{\infty} \frac{(-1)^n x^{2n}}{(2n)!}$	$(-\infty, \infty)$
e^x	$1 + x + \frac{x^2}{2} + \mathcal{O}(x^2) (x \rightarrow 0)$		
$\tan x$	$x + \frac{x^3}{3} + \frac{x^5}{5} + \mathcal{O}(x^5) (x \rightarrow 0)$	$\sum_{n=0}^{\infty} \frac{x^{2n+1}}{2n+1}$	
$\log(1+x)$	$x - \frac{x^2}{2} + \frac{x^3}{3} + \mathcal{O}(x^3) (x \rightarrow 0)$	$\sum_{n=0}^{\infty} \frac{(-1)^n x^{n+1}}{n+1}$	$(-1, 1]$
$\log(1-x)$	$x + \frac{x^2}{2} + \frac{x^3}{3} + \frac{x^4}{4} + \mathcal{O}(x^4) (x \rightarrow 0)$	$\sum_{n=0}^{\infty} \frac{x^{n+1}}{n+1}$	
$\operatorname{cosec} x$	$-\frac{x^2}{2} - \frac{x^4}{8} - \frac{x^6}{24} + \mathcal{O}(x^6) (x \rightarrow 0)$		
$\operatorname{arcsen} x$		$\sum_{k=0}^{\infty} \frac{(2k-1)!!}{(2k)!!} \frac{x^{2k+1}}{2k+1} + R_{2k+1}(x)$	
$(1+x)^\alpha$	$1 + \alpha x + \frac{\alpha(\alpha-1)}{2} x^2 + \mathcal{O}(x^2) (x \rightarrow 0)$	$\sum_{n=0}^{\infty} \binom{\alpha}{n} x^n$	$(-1, 1)$
$\sqrt{1+x}$	$1 + \frac{x}{2} - \frac{x^2}{8} + \frac{x^3}{16} + \mathcal{O}(x^3) (x \rightarrow 0)$		
$\operatorname{arc tan} x$	$x - \frac{x^3}{3} + \frac{x^5}{5} + \mathcal{O}(x^5) (x \rightarrow 0)$	$\sum_{n=0}^{\infty} \frac{(-1)^n x^{2n+1}}{2n+1}$	$[-1, 1]$
$\frac{1}{1-x}$	$1 + x + x^2 + x^3 + x^4 + \mathcal{O}(x^4) (x \rightarrow 0)$	$\sum_{n=0}^{\infty} x^n$	$(-1, 1)$
$\frac{1}{1-x^2}$	$1 + 2x + 3x^2 + 4x^3 + 5x^4 + \mathcal{O}(x^4) (x \rightarrow 0)$	$\sum_{n=0}^{\infty} (n+1)x^n$	$(-1, 1)$
$\frac{1}{1+x}$	$1 - x + x^2 - x^3 + x^4 + \mathcal{O}(x^4) (x \rightarrow 0)$	$\sum_{n=0}^{\infty} (-1)^n x^n$	$(-1, 1)$
e^{-x}	$1 - x + \frac{x^2}{2} - \frac{x^3}{6} + \frac{x^4}{24} + \mathcal{O}(x^4) (x \rightarrow 0)$	$\sum_{n=0}^{\infty} \frac{(-1)^n x^n}{n!}$	$(-\infty, +\infty)$
$\frac{1}{(1-x)^2}$	$1 + 2x + 3x^2 + 4x^3 + 5x^4 + \mathcal{O}(x^4) (x \rightarrow 0)$	$\sum_{n=0}^{\infty} (n+1)x^n$	$(-1, 1)$
$\operatorname{senh} z$		$\sum_{n=0}^{\infty} \frac{z^{2n+1}}{(2n+1)!}$	
$\cosh z$		$\sum_{n=0}^{\infty} \frac{z^{2n}}{(2n)!}$	
	$\binom{\alpha}{m} \stackrel{\text{def}}{=} \frac{\alpha(\alpha-1)(\alpha-2)\dots(\alpha-m+1)}{m!}$		