Taylorův rozvoj v 0

$\sin x$	$x - \dfrac{x^3}{3!} + \dfrac{x^5}{5!} - \dfrac{x^7}{7!} + \cdots + (-1)^n \dfrac{x^{2n+1}}{(2n+1)!} + o(x^{2n+2})$	$\displaystyle\sum_{n=0}^{\infty} (-1)^n \dfrac{x^{2n+1}}{(2n+1)!}$	$x \in (-\infty, \infty)$
$\cos x$	$1 - \dfrac{x^2}{2!} + \dfrac{x^4}{4!} - \dfrac{x^6}{6!} + \cdots + (-1)^n \dfrac{x^{2n}}{(2n)!} + o(x^{2n+1})$	$\displaystyle\sum_{n=0}^{\infty} (-1)^n \dfrac{x^{2n}}{(2n)!}$	$x \in (-\infty, \infty)$
$\operatorname{tg} x$	$x + \dfrac{1}{3}x^3 + \dfrac{2}{15}x^5 + \dfrac{17}{315}x^7 + \cdots$		$x \in \left(-\dfrac{\pi}{2}, \dfrac{\pi}{2}\right)$
e^x	$1 + x + \dfrac{x^2}{2!} + \dfrac{x^3}{3!} + \cdots + \dfrac{x^n}{n!} + o(x^n)$	$\displaystyle\sum_{n=0}^{\infty} \dfrac{x^n}{n!}$	$x \in (-\infty, \infty)$
$\ln(1+x)$	$x - \dfrac{x^2}{2} + \dfrac{x^3}{3} - \dfrac{x^4}{4} + \dfrac{x^5}{5} - \cdots + (-1)^{n+1}\dfrac{x^n}{n} + o(x^n)$	$\displaystyle\sum_{n=1}^{\infty} (-1)^{n+1}\dfrac{x^n}{n}$	$x \in (-1, 1]$
$\dfrac{1}{1-x}$	$1 + x + x^2 + x^3 + \cdots + x^n + o(x^n)$	$\displaystyle\sum_{n=0}^{\infty} x^n$	$x \in (-1, 1)$
a^x	$1 + \dfrac{x \ln a}{1!} + \dfrac{x^2 \ln^2 a}{2!} + \dfrac{x^3 \ln^3 a}{3!} + \cdots + \dfrac{(x \ln a)^n}{n!} + o(x^n)$	$\displaystyle\sum_{n=0}^{\infty} \dfrac{(x \ln a)^n}{n!}$	$a > 0, x \in (-\infty, \infty)$
$\ln \dfrac{1+x}{1-x}$	$2\left[x + \dfrac{x^3}{3} + \dfrac{x^5}{5} + \dfrac{x^7}{7} + \cdots + \dfrac{x^{2n+1}}{2n+1}\right] + o(x^{2n+2})$	$2\displaystyle\sum_{n=0}^{\infty} \dfrac{x^{2n+1}}{2n+1}$	$x \in (-1, 1)$
$(1+x)^r$	$1 + \dbinom{r}{1}x + \dbinom{r}{2}x^2 + \dbinom{r}{3}x^3 + \cdots + \dbinom{r}{n}x^n + o(x^n)$	$\displaystyle\sum_{n=0}^{\infty} \dbinom{r}{n}x^n$	$r \in \mathbb{R}, x \in (-1, 1)$
neboli	$1 + rx + \dfrac{r(r-1)}{2!}x^2 + \ldots + \dfrac{r(r-1)\ldots(r-n+1)}{n!}x^n$		
$\arcsin x$	$x + \dfrac{1}{2}\dfrac{x^3}{3} + \dfrac{1}{2}\dfrac{3}{4}\dfrac{x^5}{5} + \dfrac{1}{2}\dfrac{3}{4}\dfrac{5}{6}\dfrac{x^7}{7} + \cdots + o(x^{2n+2})$	$\displaystyle\sum_{n=0}^{\infty} \dfrac{(2n-1)!!}{(2n)!!} \dfrac{x^{2n+1}}{2n+1}$	$x \in (-1, 1)$
$\arccos x$	$\dfrac{\pi}{2} - x - \dfrac{1}{2}\dfrac{x^3}{3} - \dfrac{1}{2}\dfrac{3}{4}\dfrac{x^5}{5} - \dfrac{1}{2}\dfrac{3}{4}\dfrac{5}{6}\dfrac{x^7}{7} + \cdots + o(x^{2n+2})$	$\dfrac{\pi}{2} - \displaystyle\sum_{n=0}^{\infty} \dfrac{(2n-1)!!}{(2n)!!} \dfrac{x^{2n+1}}{2n+1}$	$x \in (-1, 1)$
$\operatorname{arctg} x$	$x - \dfrac{x^3}{3} + \dfrac{x^5}{5} - \dfrac{x^7}{7} + \cdots + (-1)^n \dfrac{x^{2n+1}}{2n+1} + o(x^{2n+2})$	$\displaystyle\sum_{n=0}^{\infty} (-1)^n \dfrac{x^{2n+1}}{2n+1}$	$x \in [-1, 1]$
$\sinh x$	$x + \dfrac{x^3}{3!} + \dfrac{x^5}{5!} + \cdots + \dfrac{x^{2n+1}}{(2n+1)!} + o(x^{2n+2})$	$\displaystyle\sum_{n=0}^{\infty} \dfrac{x^{2n+1}}{(2n+1)!}$	$x \in (-\infty, \infty)$
$\cosh x$	$1 + \dfrac{x^2}{2!} + \dfrac{x^4}{4!} + \cdots + \dfrac{x^{2n}}{(2n)!} + o(x^{2n+1})$	$\displaystyle\sum_{n=0}^{\infty} \dfrac{x^{2n}}{(2n)!}$	$x \in (-\infty, \infty)$

$$\binom{r}{n} = \frac{r(r-1)\ldots(r-n+1)}{n!}$$
$$\arccos x = \frac{\pi}{2} - \arcsin x$$

$$(2n)!! = (2n)(2n-2)(2n-4)\cdots 2$$
$$(2n-1)!! = (2n-1)(2n-3)(2n-5)\cdots 1$$