Taylorův rozvoj v 0

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

$$\binom{r}{n}=\frac{r(r-1)\ldots(r-n+1)}{n!}$$

$$\arccos x=\frac{\pi}{2}-\arcsin x$$

$$(2n)!!=(2n)(2n-2)(2n-4)\cdots 2$$

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