Sviluppi di McLaurin

e^{x}	$=$	$1+x+\frac{x^2}{2!}+\frac{x^3}{3!}+\frac{x^4}{4!}+\cdots+\frac{x^n}{n!}+o(x^n)$	$(x\to 0)$
$\sinh x$	$=$	$x+\frac{x^3}{3!}+\frac{x^5}{5!}+\cdots+\frac{x^{2n+1}}{(2n+1)!}+o(x^{2n+2})$	$(x\to 0)$
$\cosh x$	$=$	$1+\frac{x^2}{2!}+\frac{x^4}{4!}+\cdots+\frac{x^{2n}}{(2n)!}+o(x^{2n+1})$	$(x\to 0)$
$\tanh x$	$=$	$x-\frac{x^3}{3}+\frac{2}{15}x^5+o(x^6)$	$(x\to 0)$
$\text{sett }\tanh x$	$=$	$x+\frac{x^3}{3}+\frac{x^5}{5}+\cdots+\frac{x^{2n+1}}{2n+1}+o(x^{2n+2})$	$(x\to 0)$
$\ln(1+x)$	$=$	$x-\frac{x^2}{2}+\frac{x^3}{3}+\cdots+(-1)^{(n-1)}\frac{x^n}{n}+o(x^n)$	$(x\to 0)$
$\sin x$	$=$	$x-\frac{x^3}{3!}+\frac{x^5}{5!}+\cdots+(-1)^n\frac{x^{2n+1}}{(2n+1)!}+o(x^{2n+2})$	$(x\to 0)$
$\cos x$	$=$	$1-\frac{x^2}{2!}+\frac{x^4}{4!}+\cdots+(-1)^n\frac{x^{2n}}{(2n)!}+o(x^{2n+1})$	$(x\to 0)$
$\tan x$	$=$	$x+\frac{x^3}{3}+\frac{2}{15}x^5+o(x^6)$	$(x\to 0)$
$\arcsin x$	$=$	$x+\frac{x^3}{6}+\frac{3}{40}x^5+o(x^6)$	$(x\to 0)$
$\arctan x$	$=$	$x-\frac{x^3}{3}+\frac{1}{5}x^5+\cdots+(-1)^n\frac{x^{2n+1}}{(2n+1)}+o(x^{2n+2})$	$(x\to 0)$
$(1+x)^\alpha$	$=$	$1+\alpha x+\binom{\alpha}{2}x^2+\binom{\alpha}{3}x^3+\cdots+\binom{\alpha}{n}x^n+o(x^n)$	$(x\to 0)$
$\frac{1}{(1+x)}$	$=$	$1-x+x^2-x^3+\cdots+(-1)^n x^n+o(x^n)$	$(x\to 0)$
$\frac{1}{(1-x)}$	$=$	$1+x+x^2+x^3+\cdots+x^n+o(x^n)$	$(x\to 0)$
$\sqrt{(1+x)}$	$=$	$1+\frac{1}{2}x-\frac{1}{8}x^2+\frac{1}{16}x^3+\cdots+\binom{1/2}{n}x^n+o(x^n)$	$(x\to 0)$
$\frac{1}{\sqrt{(1+x)}}$	$=$	$1-\frac{1}{2}x+\frac{3}{8}x^2-\frac{5}{16}x^3+\cdots+\binom{-1/2}{n}x^n+o(x^n)$	$(x\to 0)$
$\sqrt[3]{(1+x)}$	$=$	$1+\frac{1}{3}x-\frac{1}{9}x^2+\frac{5}{81}x^3+\cdots+\binom{1/3}{n}x^n+o(x^n)$	$(x\to 0)$
$\frac{1}{\sqrt[3]{(1+x)}}$	$=$	$1-\frac{1}{3}x+\frac{2}{9}x^2-\frac{7}{81}x^3+\cdots+\binom{-1/3}{n}x^n+o(x^n)$	$(x\to 0)$