Available formulas to calculate using Taylor series

ID	formula	series	range
0	$(1-x)^{\frac{1}{3}}$	$1-\frac{1}{3}x-\frac{1*2}{3*6}x^2-\frac{1*2*5}{3*6*9}x^3-\frac{1*2*5*8}{3*6*9*12}x^4-\cdots$	$\lvert x\rvert \leq 1$
1	$(1+x)^{-\frac{3}{2}}$	$1-\frac{3}{2}x+\frac{3*5}{2*4}x^2-\frac{3*5*7}{2*4*6}x^3+\frac{3*5*7*9}{2*4*6*8}x^4-\cdots$	$\lvert x\rvert < 1$
2	$\ln x$	$2\left[\frac{x-1}{x+1}+\frac{(x-1)^3}{3(x+1)^3}+\frac{(x-1)^5}{5(x+1)^5}+\cdots\right]$	$x > 0$