

Taylor Series Remainder	$R_n(x) = \frac{f^{(n+1)}(x^*)}{(n+1)!} (x - c)^{n+1}$ where $x \leq x^* \leq c$ and $\lim_{n \rightarrow \infty} R_n(x) = 0$
Summation Form	Expanded Form
Exponential Functions	
$e^x = \sum_{n=0}^{\infty} \frac{x^n}{n!} \text{ for all } x$	$1 + x + \frac{x^2}{2!} + \frac{x^3}{3!} + \frac{x^4}{4!} + \frac{x^5}{5!} + \frac{x^6}{6!} + \frac{x^7}{7!} + \frac{x^8}{8!} + \dots$
$a^x = e^{x \ln(a)} = \sum_{n=0}^{\infty} \frac{(x \ln(a))^n}{n!} \text{ for all } x$	$1 + x \ln(a) + \frac{[x \ln(a)]^2}{2!} + \frac{[x \ln(a)]^3}{3!} + \dots$

Natural Logarithms	
$\ln(1-x) = \sum_{n=1}^{\infty} \frac{x^n}{n} \text{ for } x < 1$	$x + \frac{x^2}{2} + \frac{x^3}{3} + \frac{x^4}{4} + \frac{x^5}{5} + \frac{x^6}{6} + \frac{x^7}{7} + \frac{x^8}{8} + \dots$
$\ln(x) = \sum_{n=1}^{\infty} \frac{(-1)^{n-1} (x-1)^n}{n} \text{ for } x < 1$	$(x-1) - \frac{(x-1)^2}{2} + \frac{(x-1)^3}{3} - \frac{(x-1)^4}{4} + \dots$
$\ln(1+x) = \sum_{n=1}^{\infty} \frac{(-1)^{n-1}}{n} x^n \text{ for } x < 1$	$x - \frac{x^2}{2} + \frac{x^3}{3} - \frac{x^4}{4} + \frac{x^5}{5} - \frac{x^6}{6} + \frac{x^7}{7} - \frac{x^8}{8} + \dots$
$\ln\left(\frac{1+x}{1-x}\right) = \sum_{n=1}^{\infty} \frac{2}{2n-1} x^{2n-1} \text{ for } x < 1$	$2x - \frac{2x^3}{3} + \frac{2x^5}{5} - \frac{2x^7}{7} + \frac{2x^9}{9} - \frac{2x^{11}}{11} + \frac{2x^{13}}{13} - \dots$

Geometric Series	
$\frac{1}{x} = \sum_{n=0}^{\infty} (-1)^n (x-1)^n \text{ for } 0 < x < 2$	$1 - (x-1) + (x-1)^2 - (x-1)^3 + (x-1)^4 + \dots$
$\frac{1}{1+x} = \sum_{n=0}^{\infty} (-1)^n x^n \text{ for } x < 1$	$1 - x + x^2 - x^3 + x^4 - x^5 + x^6 - x^7 + x^8 - \dots$
$\frac{1}{1-x} = \sum_{n=0}^{\infty} x^n \text{ for } x < 1$	$1 + x + x^2 + x^3 + x^4 + x^5 + x^6 + x^7 + x^8 + \dots$
$\frac{1}{1+x^2} = \sum_{n=0}^{\infty} (-1)^n x^{2n} \text{ for } x < 1$	$1 - x^2 + x^4 - x^6 + x^8 - x^{10} + x^{12} - x^{14} + \dots$
$\frac{1}{1-x^2} = \sum_{n=0}^{\infty} x^{2n} \text{ for } x < 1$	$1 + x^2 + x^4 + x^6 + x^8 + x^{10} + x^{12} + x^{14} + \dots$
$\frac{1}{(1+x)^2} = \sum_{n=2}^{\infty} (-1)^{n-2} nx^{n-1} \text{ for } x < 1$	$1 - 2x + 3x^2 - 4x^3 + 5x^4 - 6x^5 + 7x^6 - \dots$
$\frac{1}{(1-x)^2} = \sum_{n=1}^{\infty} nx^{n-1} \text{ for } x < 1$	$1 + 2x + 3x^2 + 4x^3 + 5x^4 + 6x^5 + 7x^6 + \dots$

Advanced Calculus Taylor Power Series Solution Manual

Anthony S. Fauci



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web although the most convenient gas for this is butane other gases may be available in similar small cylinders the collection of a gas sample and the weighing of the gas cylinder before and after this should take about 5 10 minutes as a demonstration