Maclaurin Expansions: $e^{x} = 1 + x + \frac{x^{2}}{2!} + \frac{x^{3}}{2!} + \dots \text{ for all } x$ $\ln(1+x) = x - \frac{x^{2}}{2} + \frac{x^{5}}{3} - \frac{x^{4}}{4!} + \dots \text{ for } |x| < 1$ $\sin(x) = x - \frac{x^{3}}{3!} + \frac{x^{5}}{5!} - \frac{x^{7}}{7!} + \dots \text{ for all } x$ $\cos(x) = 1 - \frac{x^{2}}{2!} + \frac{x^{4}}{4!} - \frac{x^{6}}{6!} + \dots \text{ for all } x$ $\frac{1}{1-x} = 1 + x + x^{2} + x^{3} + \dots \text{ for } |x| < 1$