

Math Functions

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1 differentiation Trig Functions

1. $\lim_{x \rightarrow \infty} \frac{f(x) - f(a)}{x - a}$

2. $\int \sin x \, dx = -\cos x + C$

3. \int_a^b

4. $\int_a^b x^2 \, dx = \left[\frac{x^3}{3} \right]$

2 Series and Sequence

1. $\sum_{n=1}^{\infty} ar^n = a + ar + ar^2 + \cdots + ar^n$