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# New Trend

## Senior Secondary Mathematics

### Module 2: Algebra and Calculus

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$$\sin(A+B) = \frac{1}{2}(\sin(A+B) + \sin(A-B))$$

$$\lim_{x \rightarrow 0} \frac{x^2 - 1}{x} = 1$$

$$\frac{d}{dx}(x^n) = nx^{n-1}$$

$$\frac{d}{dx}(f(x) \pm g(x)) = f'(x) \pm g'(x)$$

$$\frac{d}{dx} \left( \frac{f(x)}{g(x)} \right) = \frac{f'(x)g(x) - f(x)g'(x)}{(g(x))^2}$$

$$\frac{1 + \tan^2 \theta}{1 + \cot^2 \theta} = \sec^2 \theta$$

$$\sum_{k=1}^n k = 1 + 2 + 3 + \dots + n$$

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# VOLUME 1

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