AP and College Calculus Formula Sheet

The key formulas in one printable page

Power rule

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

Product rule

$$(fg)' = f'g + fg'$$

Quotient rule

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

Chain rule

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

Trig derivatives

$$(\sin x)' = \cos x,\ (\cos x)' = -\sin x$$

Exponential and log

$$(e^x)' = e^x,\ (\ln x)' = \frac{1}{x}$$

Power rule for integrals

$$\int x^n\,dx = \frac{x^{n+1}}{n+1} + C,\ n \neq -1$$

Fundamental theorem

$$\int_a^b f(x)\,dx = F(b) - F(a)$$

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