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INTEGRAL CALCULUS & DIFFERENTIAL CALCULUS

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

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

$$\int f(x)g'(x) dx = \int f(x) dx \cdot g(x) + C = f(x)g(x) + C - \int g(x)f'(x) dx$$

$$\int \frac{d}{dx} \left(\frac{f(x)}{g(x)} \right) = \frac{g(x)f'(x) - f(x)g'(x)}{g(x)^2} \quad \int u dv = uv - \int v du$$

$$\int \frac{f'(x)}{f(x)} dx = \ln|f(x)| + C \quad \int_a^b f(x)g'(x) dx = \int_{g(a)}^{g(b)} f(u) du$$

$$\int u dv = uv - \int v du \quad \int x^n dx = \frac{x^{n+1}}{n+1} + C$$

$$\int x^n dx = \frac{x^{n+1}}{n+1} + C \quad \int x^{ax+b} dx = \frac{x^{ax+b}}{a} + C$$

Arvind P Vidhyarthi

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