

INTEGRAL CALCULUS & DIFFERENTIAL CALCULUS

$$\lim_{x \rightarrow \infty} \left(1 + \frac{1}{x}\right)^x = e, \quad \lim_{x \rightarrow \infty} \left(1 + \frac{1}{x}\right)^{-x} = \frac{1}{e}, \quad \lim_{x \rightarrow \infty} \left(1 + \frac{1}{x}\right)^{ax} = e^a, \quad \lim_{x \rightarrow \infty} \left(1 + \frac{1}{x}\right)^{-ax} = \frac{1}{e^a}$$

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

$$\int f(x)g'(x) dx = \int f(x) du = F(u) + C = F(g(x)) + C, \quad \lim_{x \rightarrow \infty} [f(x) + g(x)] = \lim_{x \rightarrow \infty} f(x) + \lim_{x \rightarrow \infty} g(x)$$

$$\frac{d}{dx} \left[\frac{f(x)}{g(x)} \right] = \frac{g(x)f'(x) - f(x)g'(x)}{g(x)^2}, \quad \int_a^b u dv = uv \Big|_a^b - \int_a^b v du$$

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

$$\int u dv = uv - \int v du, \quad \int e^{f(x)} f'(x) dx = e^{f(x)} + C$$

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

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