1 | definition

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

2 | significance of bounds

Imagine a function that has the bound of an integral as an argument:

$$g(x) = \int_0^x t \, dt = \frac{x^2}{2}$$
$$\frac{d}{dx}g(x) = \frac{d}{dx}\int_0^x t \, dt = \frac{d}{dx}\frac{x^2}{2} = x$$

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