

Differential + Derivative

Notebook: INIAD Statistics

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- Formual

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$$f(x) = a \text{ (constant)} \Rightarrow f'(x) = 0$$

$$f(x) = x \Rightarrow f'(x) = 1$$

$$f(x) = x^2 \Rightarrow f'(x) = 2x$$

$$f(x) = x^n \text{ } (n \neq 0) \Rightarrow f'(x) = nx^{n-1}$$

$$f(x) = e^x \Rightarrow f'(x) = e^x$$

$$f(x) = \ln x \Rightarrow f'(x) = \frac{1}{x}$$

- $f(x) = (1/x)^n \Rightarrow f'(x) = (-1)^n n! / x^{n+1}$