

# Spickzettel Ableitung

## Kennzeichnung

- $f'(x)$  -> 1. Ableitung
- $f''(x)$  -> 2. Ableitung
- $f'''(x)$  -> 3. Ableitung
- ....

Funktion

$$f(x) = c$$

Ableitung

$$f'(x) = 0$$

$$f(x) = x^n$$

$$f'(x) = n \cdot x^{n-1}$$

$$f(x) = e^x$$

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

$$f(x) = \ln(x)$$

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

$$f(x) = \sin(x)$$

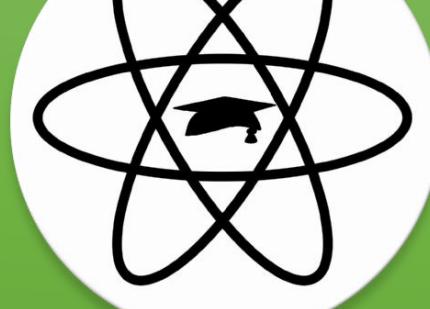
$$f'(x) = \cos(x)$$

$$f(x) = \cos(x)$$

$$f'(x) = -\sin(x)$$

$$f(x) = \tan(x)$$

$$f'(x) = \frac{1}{\cos^2(x)}$$



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Ausführliche Erklärung