

Bilde die Ableitungen

$$f(x) = 3x^2 + 4x + 2 \quad f'(x) = 6x + 4$$

$$f(x) = 9x^4 - 4x^2 - 8 \quad f'(x) = 36x^3 - 8x$$

$$f(x) = 3 \sin(x) \quad f'(x) = 3 \cos(x)$$

$$f(x) = -6 \cos(x) \quad f'(x) = 6 \sin(x)$$

$$f(x) = 3 \quad f'(x) = 0$$

$$f(x) = 5e^x + 4x \quad f'(x) = 5e^x + 4$$

$$f(x) = -3 \ln(x) \quad f'(x) = -\frac{3}{x}$$

$$f(x) = \sqrt[3]{x} \quad f'(x) = \frac{1}{3\sqrt[3]{x^2}} \quad \text{denn } f(x) = x^{\left(\frac{1}{3}\right)}$$

$$f(x) = 3^x \quad f'(x) = 3^x * \ln(3)$$

$$f(x) = 5\sqrt{x} \quad f'(x) = \frac{5}{2\sqrt{x}}$$

$$f(x) = 3x^2 - \cos(x) + 5e^x \quad f'(x) = 6x + \sin(x) + 5e^x$$