

① Berechne jeweils die erste Ableitung.

$$f(x) = 3x^3 e^x$$

$$f(x) = 3(x^3 + x)e^x$$

$$f(x) = -2x^3 e^x$$

$$f(x) = (x + 2)e^x$$

$$f(x) = (3x - 5)e^x$$

$$f(x) = 3(x + 1)e^x$$