

Function derivative example

Calculate the derivative of the following function:

$$f(x) = 2 \cdot x \cdot e^{-x^2}$$

$$f'(x) = 2 \cdot e^{-x^2} - 2 \cdot x \cdot e^{-x^2} \cdot 2 \cdot x$$

$$f'(x) = 2 \cdot e^{-x^2} - 4 \cdot x^2 \cdot e^{-x^2}$$