

Quiz 15

Name: _____

Find $f''(x)$ for the following functions.

1.

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

$$f'(x) = -2xe^{-x^2}$$

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

2.

$$f(x) = \cos(2x)$$

$$f'(x) = -\sin(2x) \cdot 2$$

$$f''(x) = -\cos(2x) \cdot 4$$