

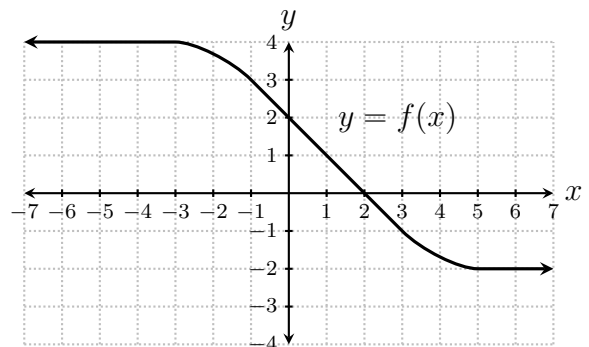
Name: _____

1. Suppose $f(x) = x^2 \cos(x)$. Find $f'(x)$.

2. Suppose $y = \frac{x^2 - 24}{x^2 - 5x + 4}$. Find $\frac{dy}{dx}$.

3. Suppose $y = \frac{\tan(x)}{1 + xe^x}$. Find y' .

4. A function $f(x)$ is graphed below. Suppose $g(x) = f(x) \cdot e^x$. Find $g'(0)$.



Name: _____

QUIZ 8 ♣

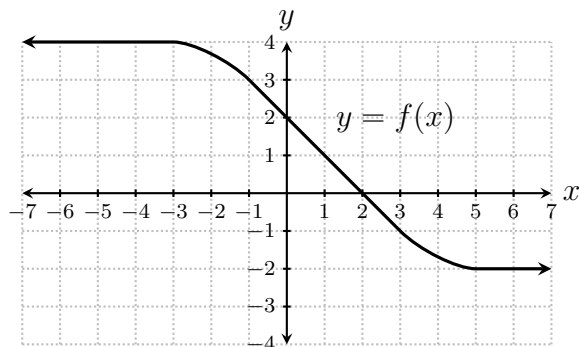
MATH 200
September 27, 2021

1. Suppose $f(x) = x^3 \tan(x)$. Find $f'(x)$.

2. Suppose $y = \frac{x^2 - 5x + 4}{x^2 - 24}$. Find $\frac{dy}{dx}$.

3. Suppose $y = \frac{1 + xe^x}{\sin(x)}$. Find y' .

4. A function $f(x)$ is graphed below. Suppose $g(x) = f(x) \cdot e^x$. Find $g'(1)$.



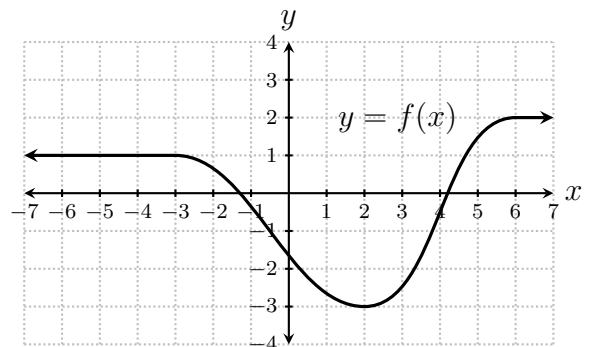
Name: _____

1. Suppose $f(x) = e^x \sqrt{x}$. Find $f'(x)$.

2. Suppose $y = \frac{3x^2 + 2}{x - 1}$. Find $\frac{dy}{dx}$.

3. Suppose $y = \frac{x^2 + 1}{x \cos(x)}$. Find y' .

4. A function $f(x)$ is graphed below. Suppose $g(x) = \frac{f(x)}{2x + 1}$. Find $g'(2)$.



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QUIZ 8 ♠

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1. Suppose $f(x) = x^5 \sec(x)$. Find $f'(x)$.

2. Suppose $y = \frac{x^2 - 24}{x^2 - 5x + 4}$. Find $\frac{dy}{dx}$.

3. Suppose $y = \frac{x \sin(x)}{1 + 3x}$. Find y' .

4. A function $f(x)$ is graphed below. Suppose $g(x) = f(x) \cdot (2x + 1)$. Find $g'(6)$.

