

NOM :

Prénom :

1.

$$f(x) = 3x^2 - 5x + 1$$

☒ $f'(x) = 6x - 5$

☐ $f'(x) = 3x - 5$

☐ $f'(x) = 6x + 5$

☐ $f'(x) = 2x - 5$

2.

$$f(x) = (2x - 3)(x + 1)$$

☐ $f'(x) = 2x - 3$

☐ $f'(x) = 2x + 1$

☒ $f'(x) = 4x - 1$

☐ $f'(x) = 3x - 1$

3.

$$f(x) = \frac{3x + 1}{x - 2}$$

☒ $f'(x) = \frac{-7}{(x - 2)^2}$

☐ $f'(x) = \frac{3x + 1}{(x - 2)^2}$

☐ $f'(x) = \frac{6x - 5}{(x - 2)^2}$

☐ $f'(x) = \frac{3x - 1}{x - 2}$

4.

$$f(x) = \sqrt{x^2 + 1}$$

☒ $f'(x) = \frac{x}{\sqrt{x^2 + 1}}$

☐ $f'(x) = \frac{x^2}{\sqrt{x^2 + 1}}$

☐ $f'(x) = \frac{2x}{\sqrt{x^2 + 1}}$

☐ $f'(x) = \frac{1}{2\sqrt{x^2 + 1}}$

5.

$$f(x) = x^2\sqrt{x}$$

☐ $f'(x) = \sqrt{x} + \frac{x}{2\sqrt{x}}$

☐ $f'(x) = 2x\sqrt{x} - \frac{x^2}{2\sqrt{x}}$

☐ $f'(x) = 2x + \frac{1}{2\sqrt{x}}$

☒ $f'(x) = 2x\sqrt{x} + \frac{x^2}{2\sqrt{x}}$

NOM :

Prénom :

1.

$$f(x) = (x - 4)(2x + 3)$$

$$\square f'(x) = 2x - 4$$

$$\square f'(x) = 4x - 1$$

$$\blacksquare f'(x) = 4x - 5$$

$$\square f'(x) = 2x + 3$$

2.

$$f(x) = \frac{2x - 5}{x + 1}$$

$$\square f'(x) = \frac{4x - 3}{(x + 1)^2}$$

$$\square f'(x) = \frac{2x - 5}{(x + 1)^2}$$

$$\blacksquare f'(x) = \frac{7}{(x + 1)^2}$$

$$\square f'(x) = \frac{2x - 1}{x + 1}$$

3.

$$f(x) = x\sqrt{x}$$

$$\square f'(x) = 2x\sqrt{x} - \frac{x^2}{2\sqrt{x}}$$

$$\blacksquare f'(x) = \sqrt{x} + \frac{x}{2\sqrt{x}}$$

$$\square f'(x) = 2x + \frac{1}{2\sqrt{x}}$$

$$\square f'(x) = 2x\sqrt{x} + \frac{x^2}{2\sqrt{x}}$$

4.

$$f(x) = 4x^2 - x + 7$$

$$\blacksquare f'(x) = 8x - 1$$

$$\square f'(x) = 4x - 1$$

$$\square f'(x) = 8x + 1$$

$$\square f'(x) = 2x - 1$$

5.

$$f(x) = \sqrt{x^2 + 4}$$

$$\blacksquare f'(x) = \frac{x}{\sqrt{x^2 + 4}}$$

$$\square f'(x) = \frac{x^2}{\sqrt{x^2 + 4}}$$

$$\square f'(x) = \frac{2x}{\sqrt{x^2 + 4}}$$

$$\square f'(x) = \frac{1}{2\sqrt{x^2 + 4}}$$

NOM :

Prénom :

1.

$$f(x) = 2x^2 - 7x + 5$$

$$\square f'(x) = 4x + 7$$

$$\blacksquare f'(x) = 4x - 7$$

$$\square f'(x) = 2x - 7$$

$$\square f'(x) = 2x - 5$$

2.

$$f(x) = (3x + 1)(x - 2)$$

$$\square f'(x) = 3x - 2$$

$$\square f'(x) = 4x - 5$$

$$\square f'(x) = 6x - 1$$

$$\blacksquare f'(x) = 6x - 5$$

3.

$$f(x) = \frac{5x - 2}{x - 1}$$

$$\square f'(x) = \frac{5x - 2}{(x - 1)^2}$$

$$\blacksquare f'(x) = \frac{-3}{(x - 1)^2}$$

$$\square f'(x) = \frac{5x - 1}{x - 1}$$

$$\square f'(x) = \frac{10x - 7}{(x - 1)^2}$$

4.

$$f(x) = (x + 5)\sqrt{x}$$

$$\square f'(x) = 2x\sqrt{x} - \frac{x^2}{2\sqrt{x}}$$

$$\square f'(x) = 2x + \frac{1}{2\sqrt{x}}$$

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

$$\square f'(x) = 2x\sqrt{x} + \frac{x^2}{2\sqrt{x}}$$

5.

$$f(x) = \sqrt{x^2 + 9}$$

$$\square f'(x) = \frac{x^2}{\sqrt{x^2 + 9}}$$

$$\blacksquare f'(x) = \frac{x}{\sqrt{x^2 + 9}}$$

$$\square f'(x) = \frac{1}{2\sqrt{x^2 + 9}}$$

$$\square f'(x) = \frac{2x}{\sqrt{x^2 + 9}}$$

NOM :

Prénom :

1.

$$f(x) = 5x^2 - 2x + 3$$

$$\square f'(x) = 5x - 2$$

$$\square f'(x) = 10x + 2$$

$$\square f'(x) = 2x - 5$$

$$\blacksquare f'(x) = 10x - 2$$

2.

$$f(x) = (x + 2)(3x - 1)$$

$$\square f'(x) = 3x + 2$$

$$\square f'(x) = 4x + 1$$

$$\blacksquare f'(x) = 6x + 5$$

$$\square f'(x) = 3x - 1$$

3.

$$f(x) = \frac{4x + 3}{x - 1}$$

$$\blacksquare f'(x) = \frac{-7}{(x - 1)^2}$$

$$\square f'(x) = \frac{4x + 3}{(x - 1)^2}$$

$$\square f'(x) = \frac{8x - 1}{(x - 1)^2}$$

$$\square f'(x) = \frac{4x - 1}{x - 1}$$

4.

$$f(x) = x^3 \sqrt{x}$$

$$\square f'(x) = 2x\sqrt{x} + \frac{x^2}{2\sqrt{x}}$$

$$\blacksquare f'(x) = 3x^2\sqrt{x} + \frac{x^3}{2\sqrt{x}}$$

$$\square f'(x) = \sqrt{x} + \frac{x}{2\sqrt{x}}$$

$$\square f'(x) = 2x\sqrt{x} - \frac{x^2}{2\sqrt{x}}$$

5.

$$f(x) = \sqrt{x^2 + 16}$$

$$\blacksquare f'(x) = \frac{x}{\sqrt{x^2 + 16}}$$

$$\square f'(x) = \frac{x^2}{\sqrt{x^2 + 16}}$$

$$\square f'(x) = \frac{2x}{\sqrt{x^2 + 16}}$$

$$\square f'(x) = \frac{1}{2\sqrt{x^2 + 16}}$$