

Daniel de Jesús Macal Jonapa. 04-Nov-2021.

$$f(x) = \frac{1}{x \cdot \sqrt{x}} \quad f'(x) = -\frac{3}{2x^{\frac{5}{2}}}$$

$$f(x) = \sqrt[3]{x^2} + \sqrt{x} \quad f'(x) = -\frac{2}{9x^{\frac{4}{3}}} - \frac{1}{4x^{\frac{3}{2}}}$$

$$f(x) = (x^2 + 3x - 2)^4 \quad f'(x) = 4(x^2 + 3x - 2)^3(2x + 3)$$

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

$$f(x) = \sqrt[4]{x^5 - x^3 - 2} \quad f'(x) = \frac{5x^4 - 3x^2}{4(x^5 - x^3 - 2)^{\frac{3}{4}}}$$

Daniel de Jesús Macal Jonapa. 04 - Nov - 2021.

$$f(x) = 5 \quad f'(x) = 0$$

$$f(x) = -2x \quad f'(x) = -2$$

$$f(x) = -2x + 2 \quad f'(x) = -2$$

$$f(x) = -2x^5 - 5 \quad f'(x) = -10x^4$$

$$f(x) = 2x^4 + x^3 - x^2 + 4 \quad f'(x) = 8x^3 + 3x^2 - x$$

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

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

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

$$f(x) = (5x^2 - 3)(x^2 + x + 4) \quad f'(x) = 20x^3 + 15x^2 + 34x - 3$$

$$f(x) = \frac{5}{x^5} \quad f'(x) = -\frac{5}{x^6}$$

$$f(x) = \frac{5}{x^5} + \frac{3}{x^2} \quad f'(x) = -\frac{25}{x^6} - \frac{6}{x^3}$$

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

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