

EJERCICIOS

1) Hallar la función derivada:

$$f_1(x) = \frac{x^3 + 1}{3}$$

$$f_{11}(x) = \frac{-2}{x^3} + \frac{5}{x^2} - 5x$$

$$f_2(x) = \frac{1}{4x^2}$$

$$f_{12}(x) = \sqrt{x^3} + \frac{1}{\sqrt{x^5}}$$

$$f_3(x) = \frac{x + 1}{x - 1}$$

$$f_{13}(x) = \frac{3x^4 - 16}{x^2 + 4x}$$

$$f_4(x) = (5x^2 - 3)(x^2 - x + 3)$$

$$f_{14}(x) = \frac{\sqrt{x}}{x + 1}$$

$$f_5(x) = \frac{6}{x^6}$$

$$f_{15}(x) = x^5 \ln(x)$$

$$f_6(x) = \frac{3}{x^3} + \frac{4}{x^2}$$

$$f_{16}(x) = \frac{\cos x}{5}$$

$$f_7(x) = \frac{2}{\sqrt{x}}$$

$$f_{17}(x) = \frac{\sin x + 18}{2x + 1}$$

$$f_8(x) = x\sqrt{x}$$

$$f_{18}(x) = \frac{6e^x}{x}$$

$$f_9(x) = \sqrt[3]{x} + 2\sqrt{x}$$

$$f_{19}(x) = \frac{2e^x - 3x^4}{\ln x}$$

$$f_{10}(x) = \frac{x^3 + x + 3}{2}$$

$$f_{20}(x) = (\ln x - 3e^x)(\sin x + \cos x)$$