

Deriva les següents funcions (1):

$$f(x) = 5x^6 - 3x^5 + 3x^3 - 2$$

$$f(x) = \sin x - \cos x$$

$$f(x) = 3 \cdot \cos(x)$$

$$f(x) = \frac{5}{x}$$

$$f(x) = \sin(x) \cdot (3x+1)$$

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

$$f(x) = \cos(3x)$$

$$f(x) = 2^x$$

$$f(x) = \ln(3x - 1)$$

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

Deriva les següents funcions (2):

$$f(x) = x^6 - 2x^5 - 2$$

$$f(x) = \sin x + \ln(x)$$

$$f(x) = 4 \tan(x)$$

$$f(x) = \frac{x}{3}$$

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

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

$$f(x) = \cos(x^2+1)$$

$$f(x) = e^x$$

$$f(x) = \ln(3x - 1)$$

$$f(x) = 2^{x^3}$$

Deriva les següents funcions (3):

$$f(x) = 5x^4 + 2x^8 - 2$$

$$f(x) = \log(x) + \ln(x)$$

$$f(x) = 4\sqrt{x^2 + 5}$$

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

$$f(x) = (x^3 + 5x + 2) \cdot (3x^2 + x)$$

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

$$f(x) = \tan(x^2 + 5x + 1)$$

$$f(x) = e^x$$

$$f(x) = \ln(x - 1)$$

$$f(x) = (6x^2 + 2x - 3)^{100}$$

Deriva les següents funcions(4):

$$f(x) = 8x^6 - 10x^5 + 3x^2 + 5x + 2$$

$$f(x) = x + \ln(x)$$

$$f(x) = 5 \tan(x)$$

$$f(x) = \frac{x}{3} + 2x + 4x - 6x$$

$$f(x) = (x^3 + 8x - 2) \cdot (x - 1)$$

$$f(x) = \frac{2x}{x^2 + 2x + 100}$$

$$f(x) = \sin(4x^2 + 1000)$$

$$f(x) = 8^x$$

$$f(x) = (3x - 1)^{2010}$$

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