

Refuerzo de Derivadas

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01.- Calcula la derivada de las siguientes 75 funciones:

a)
$$f(x) = 2x^3$$

b)
$$f(x) = -3x^{-3}$$

c)
$$f(x) = 3x^4 + 7$$

d)
$$f(x) = x^2 + x + 6$$

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

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

g)
$$f(x) = 2x^4 - 3x$$

h)
$$f(x) = 9 - 3x - 2x^2$$

i)
$$f(x) = \frac{5}{x-3}$$

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

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

$$f(x) = \frac{-8}{x^{10}}$$

m)
$$f(x) = 5x^7 + 2x + 6$$

n)
$$f(x) = 5x^4 - 2x^3 + 6x - 2$$

$$f(x) = \frac{3}{5x^5}$$

o)
$$f(x) = 4x^{10} + 12x^7 - 5x^4 + 8$$

p)
$$f(x) = \sqrt[6]{x}$$

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

$$f(x) = 3x^3 - 3\sqrt[3]{x} + \frac{3}{x^3} - 3$$

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

t)
$$f(x) = 7^{4-x}$$

$$u) \quad f(x) = 3^{sen 3x}$$

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

w)
$$f(x) = e^{x^2 + 3x - 8}$$

x)
$$f(x) = e^{sen(2x^2-5x)}$$

y)
$$f(x) = (x^2 + 2)(x^3 + 1)$$

z)
$$f(x) = (x^4 - 1)(x^2 + 1)$$

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

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

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

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

$$\epsilon) \quad f(x) = (1-x)^2$$

$$f(x) = (5x^2 - 3\sqrt{x})^5$$

$$f(x) = \sqrt[5]{(2x^2 - 3x + 1)^3}$$

$$f(x) = \frac{(2x-5)^7}{2x}$$

$$f(x) = \log_2(x^4 - 4x^2)$$

$$\kappa) \quad f(x) = \ln(2x^2 - x)$$

$$\lambda) \quad f(x) = \tan(\ln x^2)$$

$$\mu) \quad f(x) = \ln(sen \ x) + \ln(\tan 3x)$$

$$f(x) = \ln(tan^2 3x)$$

$$f(x) = \frac{\cos 4x}{\log 5x}$$

o)
$$f(x) = \log_5(sen 2x)$$

$$\pi) \quad f(x) = \log_2(arc\cos(x - x^2))$$

$$\rho) \quad f(x) = arc \cos(\ln x^2)$$

$$f(x) = \sqrt{1 + \ln 3x}$$

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

$$t) \quad f(x) = \sqrt{2x - 1}$$

v)
$$f(x) = (\cos 3x)^{x+2}$$

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

$$f(x) = e^{\cos x^3}$$

$$\psi$$
) $f(x) = sen(3x - 1)$

$$\omega) \quad f(x) = \cos 2x^7$$

$$f(x) = \tan \sqrt[3]{x}$$

$$f(x) = \sec(1 - 2x - x^3)$$

$$6) \quad f(x) = sen \, 5x + \cos 5x$$

$$f(x) = \cot \sqrt{x} - \csc \sqrt[3]{x}$$

$$\exists) \quad f(x) = tan^5 x^5$$

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

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

$$\Phi) \quad f(x) = \cos(\tan 3x)$$

$$\Psi) \quad f(x) = arc \ sen \ (2x - 1)$$

$$\Omega) \quad f(x) = arc\cos(x^2 + 3)$$

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

4)
$$f(x) = arc \cot(3x^2 - 1)$$

$$f(x) = arc \sec(5 - x)$$

$$f(x) = arc \csc \sqrt[3]{x}$$

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

$$f(x) = \sqrt{arc \ sen \ 2x}$$

$$\rho) \quad f(x) = \frac{arc \tan 5x}{\cot 7x}$$

лы
$$f(x) = (arc sen 3x)^5$$

H)
$$f(x) = \cos(5x - 3)$$

F)
$$f(x) = sen(3x - 2)$$

$$4) \quad f(x) = (3x^2)^{\cos 2x}$$

ж)
$$f(x) = (x^5 - 5x^2)^{5x-6}$$

Л)
$$f(x) = (sen x^2)^{\cot(3x-1)}$$