

Derivadas de productos y cocientes

$$d(f(x) * g(x)) = f(x)g'(x) + g(x)f'(x)$$

$$d\left(\frac{f(x)}{g(x)}\right) = \frac{g(x)f'(x) - f(x)g'(x)}{(g(x))^2}$$

$$\frac{d}{dx}(\ln(x) \arccos(x))$$

$$\frac{d}{dx}(3^x \csc(x))$$

$$\frac{d}{dx}(2\sqrt{x} \arcsin(x))$$

$$\frac{d}{dx}(x(\sin(x) + 3\cos(x)))$$

$$\frac{d}{dx}((\sec(x) - 5x^7)(5 + 4x))$$

$$\frac{d}{dx}\left(\frac{\sin(x)}{5x + 2}\right)$$

$$\frac{d}{dx}\left(\frac{x^2 + 8}{4x^3 - 2}\right)$$

$$\frac{d}{dx}\left(\frac{\sin(x) + 2\cos(x)}{2\cos(x) - \sin(x)}\right)$$

$$\frac{d}{dx}\left(\frac{6}{2\arctan(x)}\right)$$

$$\frac{d}{dx}\left(\frac{x}{x + 1}\right)$$

Respuestas

$$\frac{\arccos(x)}{x} - \frac{\ln(x)}{\sqrt{1-x^2}}$$

$$\frac{4(\cos(x)^2 + \sin(x)^2)}{(2\cos(x) - \sin(x))^2}$$

$$3^x \ln(3) \csc(x) - 3^x \csc(x) \cot(x)$$

$$(\sec(x) \tan(x) - 35x^6)(5 + 4x) + 4\sec(x) - 20x^7$$

$$\frac{\arcsin(x)}{\sqrt{x}} + \frac{2\sqrt{x}}{\sqrt{1-x^2}}$$

$$-\frac{3}{\arctan(x)^2(x^2 + 1)}$$

$$\sin(x) + 3\cos(x) + x(\cos(x) - 3\sin(x))$$

$$\frac{1}{(x + 1)^2}$$

$$-\frac{x(x^3 + 1 + 24x)}{(2x^3 - 1)^2}$$

$$\frac{5\cos(x)x + 2\cos(x) - 5\sin(x)}{(5x + 2)^2}$$