

Tarea 4. Derivadas con fórmula. Regla de la Cadena

$$d(f(g(x))) = f'(g(x)) \cdot g'(x)$$

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

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

$$\frac{d}{dx} (\arcsin(\sec(x)))$$

$$\frac{d}{dx} (\arctan(\sqrt{x}))$$

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

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

$$\frac{d}{dx} ((\arctan(x))^{10})$$

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

$$\frac{d}{dx} (e^{5 \cos(4x^2 + 1)^2})$$

$$\frac{d}{dx} (2^{\sec(x + x^2)})$$

Resultados

$$\frac{\cos(\ln(x))}{x}$$

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

$$\cos(3^x) 3^x \ln(3)$$

$$-3^{\cos(x)} \sin(x) \ln(3)$$

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

$$\frac{3^{\sin(\ln(x))} \cos(\ln(x)) \ln(3)}{x}$$

$$\frac{10 \arctan(x)^9}{1+x^2}$$

$$\frac{\sec(x) \tan(x)}{\sqrt{1-\sec(x)^2}}$$

$$-80 \cos(4x^2 + 1) \sin(4x^2 + 1) x e^{5 \cos(4x^2 + 1)^2}$$

$$2^{\sec(x+x^2)} \sec(x+x^2) \tan(x+x^2) (1+2x) \ln(2)$$