Derivadas de funciones algebraicas

$$\frac{d}{dx}c = 0 \text{ , "c" es una constante}$$

$$\frac{d}{dx}x = 1$$

$$\frac{d(u+v-w)}{dx} = \frac{du}{dx} + \frac{dv}{dx} - \frac{dw}{dx}$$

$$\frac{d}{dx}cv = c\frac{dv}{dx}$$

$$\frac{d(x^n)}{dx} = nx^{n-1}$$

$$\frac{d}{dx}v^n = nv^{n-1}\frac{dv}{dx}$$

$$\frac{d}{dx}\sqrt[n]{v} = \frac{1}{n\sqrt[n]{v^{n-1}}}\frac{dv}{dx}$$

$$\frac{d}{dx}\sqrt{v} = \frac{1}{2\sqrt{v}}\frac{dv}{dx}$$

$$\frac{d}{dx}\left(\frac{c}{v}\right) = -\frac{c}{v^2}\frac{dv}{dx}$$

$$\frac{d}{dx}\left(\frac{v}{c}\right) = \frac{1}{c}\frac{dv}{dx}$$

$$\frac{d}{dx}(uv) = u\frac{dv}{dx} + v\frac{du}{dx}$$

$$\frac{d}{dx}\left(\frac{u}{v}\right) = \frac{v\frac{du}{dx} - u\frac{dv}{dx}}{v^2}$$

Derivadas trigonométricas

$$\frac{d}{dx}\operatorname{sen} v = \cos v \frac{dv}{dx}$$

$$\frac{d}{dx}\csc v = -\csc v \cot v \frac{dv}{dx}$$

$$\frac{d}{dx}\cos v = -\operatorname{sen} v \frac{dv}{dx}$$

$$\frac{d}{dx}\sec v = \sec v \tan v \frac{dv}{dx}$$

$$\frac{d}{dx}\tan v = \sec^2 v \frac{dv}{dx}$$

$$\frac{d}{dx}\cot v = -\csc^2 v \frac{dv}{dx}$$

Derivadas de inversas trigonométricas

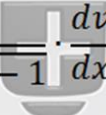$$\frac{d}{dx}\operatorname{arc\,sen} v = \frac{1}{\sqrt{1-v^2}} \cdot \frac{dv}{dx}$$

$$\frac{d}{dx}\operatorname{arc\,cos} v = -\frac{1}{\sqrt{1-v^2}} \cdot \frac{dv}{dx}$$

$$\frac{d}{dx}\operatorname{arc\,tan} v = \frac{1}{1+v^2} \cdot \frac{dv}{dx}$$

$$\frac{d}{dx}\operatorname{arc\,cot} v = -\frac{1}{1+v^2} \cdot \frac{dv}{dx}$$

$$\frac{d}{dx}\operatorname{arc\,sec} v = \frac{1}{v\sqrt{v^2-1}} \cdot \frac{dv}{dx}$$

$$\frac{d}{dx}\operatorname{arc\,csc} v = -\frac{1}{v\sqrt{v^2-1}} \cdot \frac{dv}{dx}$$

Derivadas logarítmicas

$$\frac{d}{dx}\ln v = \frac{1}{v} \cdot \frac{dv}{dx}$$

$$\frac{d}{dx}\log_b v = \frac{\log_b e}{v} \cdot \frac{dv}{dx}$$

Derivadas exponenciales

$$\frac{d}{dx}e^v = e^v \cdot \frac{dv}{dx}$$

$$\frac{d}{dx}a^v = a^v \ln a \cdot \frac{dv}{dx}$$

$$\frac{d}{dx}u^v = v \cdot u^{v-1} \cdot \frac{du}{dx} + \ln u \cdot u^v \frac{dv}{dx}$$