

FÓRMULAS DE DERIVACIÓN

EJEMPLOS

$$y = \arcsen u; \quad y' = \frac{u'}{\sqrt{1-u^2}}$$

$$y = \arcsen(2x-3); \quad y' = \frac{2}{\sqrt{1-(2x-3)^2}}$$

$$y = \arccos u; \quad y' = -\frac{u'}{\sqrt{1-u^2}}$$

$$y = \arccos \sqrt{x}; \quad y' = \frac{-1}{2\sqrt{x} \cdot \sqrt{1-x}}$$

$$y = \arctg u; \quad y' = \frac{u'}{1+u^2}$$

$$y = \frac{1}{2} + \arctg x; \quad y' = \frac{1}{1+x^2}$$

$$y = \operatorname{arccotg} u; \quad y' = -\frac{u'}{1+u^2}$$

$$y = \operatorname{arccotg}(7x^2-1); \quad y' = \frac{-14x}{1+(7x^2-1)^2}$$

Ejercicios:

$$y = \arcsin \operatorname{tg} \left(\frac{1+x}{1-x} \right)$$

$$y = \arcsin x^2$$

$$y = \arcsin \cos \left(\frac{1-x^2}{1+x^2} \right)$$

$$y = \arcsin \operatorname{cotg} \frac{x}{\sqrt{1-x^2}}$$