

3.8 Inverse Trig Functions: Differentiation

$$1. \ f(x) = 3 \cos^{-1} \left(\frac{x}{2} \right)$$

$$2. \ y = \tan^{-1} \sqrt{t}$$

$$3. \ x(t) = t \arctan 2t$$

$$4. \ y = 25 \sin^{-1} \left(\frac{x}{5} \right) - x \sqrt{25 - x^2}$$