

## 3.6 Inverse Trigonometric Functions and their Derivatives

Name:

Date:

**P 2.** Find the exact value of

(a)  $\tan^{-1}(1/\sqrt{3})$

**P 3.** Find the exact value of

(a)  $\arctan 1$

**P 4.** Find the exact value of

(a)  $\tan^{-1}(\tan 3\pi/4)$

(b)  $\sec^{-1} 2$

(b)  $\sin^{-1}(1/\sqrt{2})$

(b)  $\cos(\arcsin \frac{1}{2})$

**P 21.** Find the derivative and simplify where possible.

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

**P 22.** Find the derivative and simplify where possible.

$$f(x) = x \ln(\arctan x)$$

**P 24.** Find the derivative and simplify where possible.

$$y = \tan^{-1}(x - \sqrt{1 + x^2})$$