## **3.5 Derivatives of Trig Functions**

Use your knowledge of derivatives to complete the table below.



## Derivatives of Trig Functions



## Check Your Understanding!

In 1-5: find the derivative of each function.

$$1. f(\theta) = \csc\theta + \sec\theta$$

$$2. \quad W(t) = \frac{1}{\sec t} - \frac{2}{3\csc t}$$

3. 
$$F(y) = \frac{\sin y}{\tan y \cdot \csc y}$$

4. 
$$P(x) = \cos x \cdot \tan x$$

5.  $g(\alpha) = \cot \alpha \cdot \cot \alpha$ 

6. Find 
$$H'\left(\frac{\pi}{3}\right)$$
 when  $H(x) = \cos x \cdot \tan x + \frac{\sin x + \tan x}{\sin x}$ 

