## 6.7 6.8 Extra Practice

## Lesson 6-7

Graph each function.

1. 
$$y = \cot\left(\theta - \frac{\pi}{4}\right)$$

**2**. 
$$y = \sec \theta + 2$$

$$3. \ y = \csc\left(2\theta + 2\pi\right)$$

## Graph each function.

**41**. 
$$y = \frac{1}{3} \csc \theta$$

**42**. 
$$y = 2 \tan \left(3\theta + \frac{\pi}{2}\right)$$

**43**. 
$$y = \sec \theta + 4$$

**44**. 
$$y = \tan \theta - 2$$

## Lesson 6-8

Find each value.

1. 
$$\cos^{-1} 0 \frac{\pi}{2}$$
  
4.  $\cos^{-1} \left( \tan \frac{3\pi}{4} \right) \pi$ 

4. 
$$Cos^{-1}\left(\tan\frac{3\pi}{4}\right)$$

**45**. Arctan 
$$\left(-1\right)$$
  $-\frac{\pi}{4}$ 

48. 
$$\sin\left(\operatorname{Sin}^{-1}\frac{\sqrt{3}}{2}\right) \quad \frac{\sqrt{3}}{2}$$

5. 
$$\sin\left(\cos^{-1}\frac{1}{2} + \sin^{-1}0\right) \frac{\sqrt{3}}{2}$$

2. Arcsin 0 0 3. 
$$\cos (Tan^{-1} 1)^{\frac{\sqrt{2}}{2}}$$
 5.  $\sin \left( \cos^{-1} \frac{1}{2} + \sin^{-1} 0 \right)^{\frac{\sqrt{3}}{2}}$  6.  $\cos \left( 2 \sin^{-1} \frac{\sqrt{3}}{2} \right)^{\frac{1}{2}}$ 

**46.** Sin<sup>-1</sup> 1 
$$\frac{\pi}{2}$$
 **47.** Cos<sup>-1</sup>  $\left(\tan \frac{\pi}{4}\right)$  **0**

49. 
$$\cos\left(\operatorname{Arctan}\sqrt{3} + \operatorname{Arcsin}\frac{1}{2}\right)$$
 0