

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

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

45.  $\arctan(-1)$   $-\frac{\pi}{4}$

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

2.  $\arcsin 0$   $0$

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

46.  $\sin^{-1} 1$   $\frac{\pi}{2}$

49.  $\cos\left(\arctan \sqrt{3} + \arcsin \frac{1}{2}\right)$   $0$

3.  $\cos(\tan^{-1} 1)$   $\frac{\sqrt{2}}{2}$

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

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