

$$7. \quad (a) \quad \sin \frac{3\pi}{4} = \sin \frac{\pi}{4} = \frac{\sqrt{2}}{2}$$

$$(b) \quad \cos \frac{3\pi}{4} = -\cos \frac{\pi}{4} = -\frac{\sqrt{2}}{2}$$

$$9. \quad (a) \quad \sin 1.1 \approx 0.89121$$

$$(b) \quad \cos 1.1 \approx 0.45360$$

$$11. \quad (a) \quad \cos \frac{9\pi}{2} = \cos \frac{\pi}{2} = 0$$

$$(b) \quad \sec \frac{9\pi}{2} \text{ is undefined}$$

$$13. \quad (a) \quad \tan \frac{5\pi}{2} \text{ is undefined}$$

$$(b) \quad \cot \frac{5\pi}{2} = \cot \frac{\pi}{2} = 0$$

$$15. \quad (a) \quad \tan \frac{\pi}{8} \approx 0.41421$$

$$(b) \quad \cot \frac{\pi}{8} \approx 2.41421$$