

Solving Simple Trig Equations Practice Problems

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Solve each equation for $0 \leq \theta < 2\pi$.

1) $0 = \cos \theta$

2) $\csc \theta = -\sqrt{2}$

3) $-\frac{\sqrt{2}}{2} = \sin \theta$

4) $-1 = \cos \theta$

5) $\sec \theta = \sqrt{2}$

6) $\frac{\sqrt{3}}{2} = \cos \theta$

7) $1 = \sec \theta$

8) $-\sqrt{3} = \tan \theta$

9) $\sin \theta = \frac{1}{2}$

10) $\frac{\sqrt{2}}{2} = \sin \theta$

Answers to

$$1) \left\{ \frac{\pi}{2}, \frac{3\pi}{2} \right\}$$

$$5) \left\{ \frac{\pi}{4}, \frac{7\pi}{4} \right\}$$

$$9) \left\{ \frac{\pi}{6}, \frac{5\pi}{6} \right\}$$

$$2) \left\{ \frac{5\pi}{4}, \frac{7\pi}{4} \right\}$$

$$6) \left\{ \frac{\pi}{6}, \frac{11\pi}{6} \right\}$$

$$10) \left\{ \frac{\pi}{4}, \frac{3\pi}{4} \right\}$$

$$3) \left\{ \frac{5\pi}{4}, \frac{7\pi}{4} \right\}$$

$$7) \{0\}$$

$$4) \{\pi\}$$

$$8) \left\{ \frac{2\pi}{3}, \frac{5\pi}{3} \right\}$$