

Directions: For problems 1 – 6, find all solutions on the interval $0 \leq x < 2\pi$.

$$1. \sin(x) = \frac{\sqrt{2}}{2}$$

$$x = \frac{\pi}{4}, \frac{3\pi}{4}$$

$$2. \cos(x) = \frac{1}{2}$$

$$x = \frac{\pi}{3}, \frac{5\pi}{3}$$

$$3. \cos(x) = 0$$

$$x = \frac{\pi}{2}, \frac{3\pi}{2}$$

$$4. \tan x = -1$$

$$x = \frac{3\pi}{4}, \frac{7\pi}{4}$$

$$5. \sin x = -\frac{1}{2}$$

$$x = \frac{7\pi}{6}, \frac{11\pi}{6}$$

$$6. \tan x = \sqrt{3}$$

$$x = \frac{\pi}{3}, \frac{4\pi}{3}$$

Directions: For problems 7 – 12, find all solutions that satisfy the given equations.

$$7. \sin x = \frac{\sqrt{3}}{2}$$

$$x = \frac{\pi}{3} + 2\pi k \quad \text{and}$$

$$x = \frac{2\pi}{3} + 2\pi k$$

$$8. \cos x = \frac{\sqrt{2}}{2}$$

$$x = \frac{\pi}{4} + 2\pi k \quad \text{and}$$

$$x = \frac{7\pi}{4} + 2\pi k$$

$$9. \tan x = 1$$

$$x = \frac{\pi}{4} + \pi k$$

$$10. \sin x = -1$$

$$x = \frac{3\pi}{2} + 2\pi k$$

$$11. \cos x = -\frac{\sqrt{3}}{2}$$

$$x = \frac{5\pi}{6} + 2\pi k \quad \text{and}$$

$$x = \frac{7\pi}{6} + 2\pi k$$

$$12. \tan x = -\frac{1}{\sqrt{3}}$$

$$x = \frac{5\pi}{6} + \pi k$$

Directions: For problems 13 – 14, find all solutions on the interval $0 \leq x < 2\pi$.

$$13. 2\cos(x) + 3 = 2$$

$$2\cos(x) = -1$$

$$\cos(x) = -\frac{1}{2}$$

$$x = \frac{2\pi}{3}, \frac{4\pi}{3}$$

$$14. -4\sin x = 2\sqrt{3}$$

$$\sin(x) = -\frac{2\sqrt{3}}{4} = -\frac{\sqrt{3}}{2}$$

$$x = \frac{4\pi}{3}, \frac{5\pi}{3}$$

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John H. Davis



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