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

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

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

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

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

   $x = \frac{\pi}{4} + 2\pi k$ **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. $\cos x = -\frac{\sqrt{3}}{2}$

    $x = \frac{5\pi}{6} + 2\pi k$ **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 $0 \le x < 2\pi$.

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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