

7.4 #5-8, (solve for all solutions)

17-20, (find 6 solutions)

41, 42, 45-53 (only find solutions for $0 \leq \theta < 2\pi$)

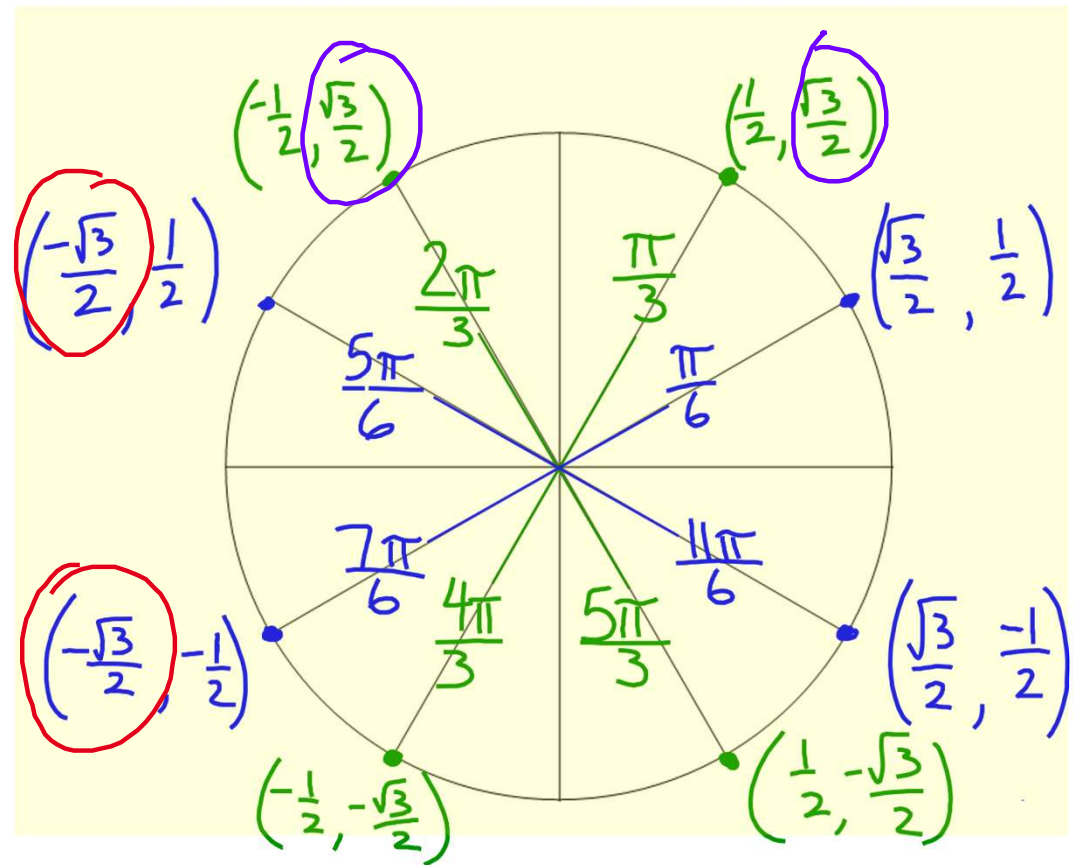
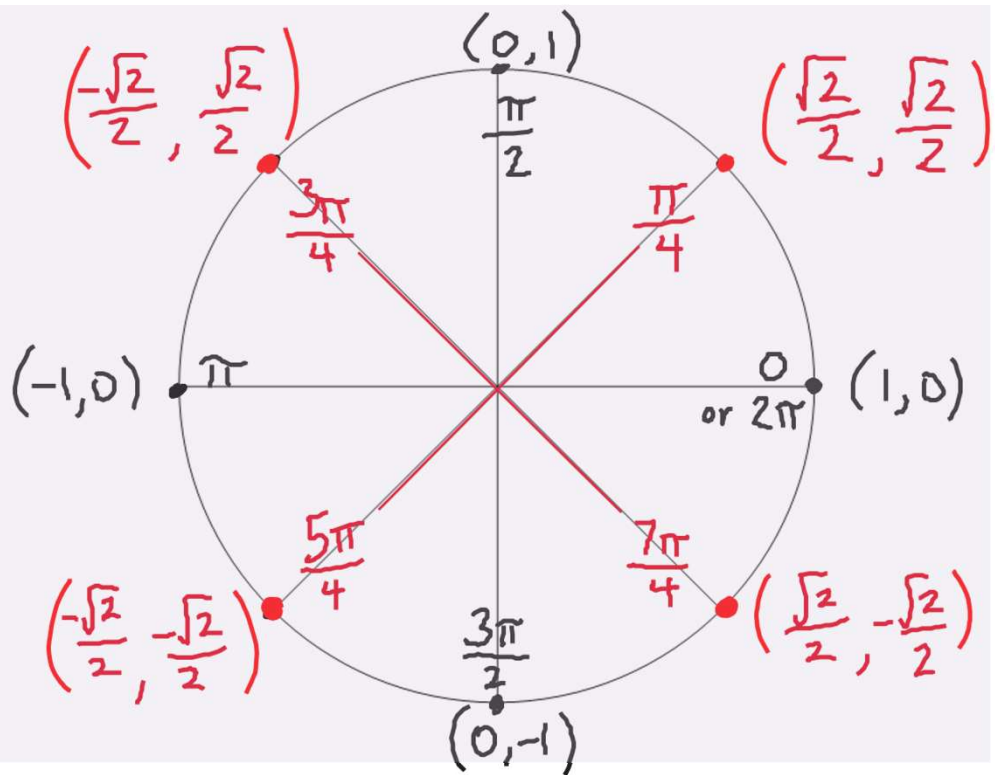
Solve the given equation:

5. $\sin \theta = \frac{\sqrt{3}}{2} \rightarrow \textcircled{\text{or}} \theta = \sin^{-1}\left(\frac{\sqrt{3}}{2}\right)$

$\theta = \frac{\pi}{3} + 2k\pi$ $k = \text{integer}$

or $\frac{\pi}{3} + 2\pi k$

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



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Solve the given equation, list 6 specific solutions:

$$17. \quad \cos \theta = -\frac{\sqrt{3}}{2}$$

$$\theta = \frac{5\pi}{6}$$
$$\theta = \frac{7\pi}{6}$$

$$\frac{5\pi}{6} \pm 2\pi = \frac{5\pi}{6} \pm \frac{12\pi}{6}$$

$$\frac{7\pi}{6} \pm 2\pi = \frac{7\pi}{6} \pm \frac{12\pi}{6}$$

$$\frac{19\pi}{6}$$
$$-\frac{5\pi}{6}$$

$$\frac{17\pi}{6}$$

$$-\frac{7\pi}{6}$$

HINT:

PROBLEM	# OF SOLUTIONS
41.	2
42.	3
45.	2
46.	1
47.	0
48.	0
49.	1
50.	6
51.	4
52.	2
53.	2