

1.  $\theta = \frac{3\pi}{4}, \frac{7\pi}{4}$

2.  $\frac{5\pi}{6}, \frac{\pi}{6} = \theta$

3.  $\theta = \frac{\pi}{4}, \frac{3\pi}{4}$

4.  $\theta = \frac{4\pi}{3}$

5. No Solution

6.  $\theta = \frac{\pi}{2}$

7.  $\theta = 60^\circ, 90^\circ, 270^\circ, 300^\circ$

8.  $\theta = 0^\circ, 150^\circ, 180^\circ, 330^\circ, 360^\circ$

9. 90, 270

10. 0, 360

11. 270

12. 0, 120, 240, 360

13.  $\theta = 56.3^\circ, 135^\circ, 236.3^\circ, 315^\circ$

14.  $\theta = 75.5^\circ, 180^\circ, 284.5^\circ$

15. 90, 180, 270

16. 0, 120, 180, 240, 360

17. 45, 135, 225, 315

18. 120, 240