

Key

Name: _____ Period _____

Find θ ($0 \leq \theta < 2\pi$):

1. $\cos \theta = \frac{1}{2}$

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

2. $\sin \theta = -1$

$\frac{3\pi}{2}$

3. $\tan \theta = \sqrt{3}$

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

4. $\cos 30^\circ = \frac{\sqrt{3}}{2}$

5. $\cos 45^\circ = \frac{1}{\sqrt{2}}$

6. $\csc 315^\circ = -\sqrt{2}$

7. $\sin 0^\circ = 0$

8. $\cos 90^\circ = 0$

9. $\csc 210^\circ = -2$

10. $\cot 0^\circ = \text{DND}$

11. $\tan 120^\circ = -\sqrt{3}$

12. $\sec 330^\circ = \frac{2}{\sqrt{3}}$

13. $\csc 270^\circ = -1$

14. $\cot 135^\circ = -1$

15. $\tan \frac{\pi}{6} = \frac{1}{\sqrt{3}}$

16. $\cot \frac{5\pi}{4} = +1$

17. $\sin \frac{5\pi}{4} = -\frac{1}{\sqrt{2}}$

18. $\sin \frac{5\pi}{6} = \frac{1}{2}$

19. $\cos \frac{\pi}{4} = \frac{1}{\sqrt{2}}$

20. $\tan \frac{5\pi}{3} = -\sqrt{3}$

21. $\sec \frac{7\pi}{4} = \sqrt{2}$

22. $\sec \pi = -1$

23. $\sec -\frac{\pi}{3} = 2$

25. $\cot -\frac{3\pi}{2} = 0$

26. $\cos \frac{7\pi}{4} = \frac{1}{\sqrt{2}}$

27. $\csc \frac{5\pi}{6} = 2$

28. $\tan \frac{2\pi}{3} = -\sqrt{3}$

Find θ ($0 \leq \theta < 2\pi$):

29. $\csc \theta = 3.256$

$\theta = .312, 2.829$

30. $\cot \theta = .21686$

$1.3572, 4.4988$

31. $\cos \theta = -.782$

$\theta = 2.469, 3.815$

32. $\tan \theta = -1.212$

$\theta = 2.261, 5.402$