

Evaluate **WITHOUT** the calculator.

1. $\sin \frac{\pi}{3}$

2. $\tan 270^\circ$

3. $\sec 45^\circ$

4. $\cos \frac{\pi}{2}$

5. $\cot \frac{\pi}{6}$

6. $\csc \left(-\frac{4}{3}\pi \right)$

7. $\cos 300^\circ$

8. $\tan \frac{5}{3}\pi$

9. $\sin \frac{7}{6}\pi$

10. $\cos 135^\circ$

Evaluate using the calculator. Round to 3 decimal places.

11. $\tan 100^\circ$

12. $\cos \frac{11}{8}\pi$

13. $\csc 310^\circ$

14. $\sin 6$

15. $\cot \frac{4}{5}\pi$

16. $\sec 22^\circ$

17. $\csc 15$

18. $\cot 350^\circ$

19. $\sin 10^\circ$

20. $\tan 2.5$

Solve for θ **without** the calculator, if $0^\circ \leq \theta \leq 90^\circ$.

21. $\cos \theta = \frac{\sqrt{3}}{2}$

22. $\cot \theta = \sqrt{3}$

23. $\csc \theta = \sqrt{2}$

24. $\sin \theta = \frac{1}{2}$

Solve for θ **without** the calculator, if $0 \leq \theta \leq \frac{\pi}{2}$.

25. $\tan \theta = 1$

26. $\sec \theta = 2$

27. $\sin \theta = 0$

28. $\csc \theta = \frac{2\sqrt{3}}{3}$

Solve for θ **using** the calculator to the nearest thousandth, if $0^\circ \leq \theta \leq 90^\circ$

29. $\tan \theta = 1.2$

30. $\sec \theta = 3.005$

Solve for θ **using** the calculator to the nearest thousandth, if $0 \leq \theta \leq \frac{\pi}{2}$.

31. $\sin \theta = \frac{1}{8}$

32. $\cot \theta = 4.355$

Solve for θ **without** the calculator , if $0^\circ \leq \theta < 360^\circ$.

$$33. \cos\theta = \frac{1}{2}$$

$$34. \sin\theta = -\frac{\sqrt{2}}{2}$$

$$35. \cot\theta = -\frac{\sqrt{3}}{3}$$

Solve for θ **without** the calculator , if $0 \leq \theta < 2\pi$.

$$36. \tan\theta = 1$$

$$37. \sec\theta = \text{undefined}$$

$$38. \sin\theta = \frac{\sqrt{3}}{2}$$

$$39. \cos\theta = -\frac{\sqrt{3}}{2}$$

$$40. \tan\theta = 0$$

$$41. \csc\theta = -2$$

Solve for θ **using** the calculator to the nearest thousandth, if $0^\circ \leq \theta < 360^\circ$.

$$42. \cos\theta = \frac{1}{5}$$

$$43. \tan\theta = -.654$$

$$44. \csc\theta = -15.2$$

Solve for θ **using** the calculator to the nearest thousandth, if $0 \leq \theta < 2\pi$.

$$45. \sec\theta = -\frac{7}{2}$$

$$46. \sin\theta = .035$$

$$47. \cot\theta = 5$$