

Find each of the following. Round your answer to 4 decimal places.

1. $\sin 198^\circ 14' 17'' = -0.313$

2. $\cos(-239.43^\circ) = -0.5086$

3. $\tan \frac{17\pi}{19} = -0.3433$

4. $\cot 281.29^\circ = -0.1996$

5. $\sec(-\frac{5\pi}{7}) = -1.6039$

6. $\csc 16^\circ 29' = 3.5244$

7. $\sin 4.8 = -0.9962$

8. $\cos(\frac{15\pi}{8}) = 0.9239$

9. $\tan(-39.72^\circ) = -0.8308$

10. $\csc(-\frac{7\pi}{3}) = \frac{1}{\sin(-\frac{7\pi}{3})} = 1.1547$

11. $\sec 29^\circ 42' 37'' = \frac{1}{\cos(29^\circ 42' 37'')} = 1.1514$

12. $\cot(-2.3) = \frac{1}{\tan(-2.3)} = 0.8935$

13. $\cos 5.9 = 0.9275$

14. $\csc(-3.7) = \frac{1}{\sin(-3.7)} = 1.8874$

15. $\cot(-143^\circ 42' 57'') = \frac{1}{\tan(-143^\circ 42' 57'')} = 1.3621$

Find the measure of each angle θ in degrees. Round your answer to the nearest minute.

16. $\cos \theta = -0.8123$
 $\theta = \cos^{-1}(-0.8123)$
 $\theta = 144.3212602$
 $\theta = 144^\circ 19'$

17. $\tan \theta = 2.1091$
 $\theta = \tan^{-1}(2.1091)$
 $\theta = 64.63269114 \times 60$
 $\theta = 64^\circ 38'$

18. $\csc \theta = 1.1033$
 $\sin \theta = \frac{1}{1.1033}$
 $\theta = \sin^{-1}(\frac{1}{1.1033})$
 $\theta = 65.00867901 \times 60$

19. $\cot \theta = -0.7523$
 $\tan \theta = \frac{1}{-0.7523}$
 $\theta = \tan^{-1}(\frac{1}{-0.7523})$
 $\theta = -53.04585604 \times 60$
 $\theta = -53^\circ 3'$

20. $\sec \theta = -1.1173$
 $\cos \theta = \frac{1}{-1.1173}$
 $\theta = \cos^{-1}(\frac{1}{-1.1173})$
 $\theta = 153.5103267 \times 60$
 $\theta = 153^\circ 31'$

21. $\sin \theta = -0.5146$
 $\theta = \sin^{-1}(-0.5146)$
 $\theta = -30.97072218 \times 60$
 $\theta = -30^\circ 58'$

Find the measure of each angle θ in degrees. Round your answer to hundredths place.

22. $\sin \theta = 0.9572$
 $\theta = \sin^{-1}(0.9572)$
 $\theta = 73.18^\circ$

23. $\tan \theta = 0.4046$
 $\theta = \tan^{-1}(0.4046)$
 $\theta = 22.03^\circ$

24. $\sec \theta = 2.5673$
 $\cos \theta = \frac{1}{2.5673}$
 $\theta = \cos^{-1}(\frac{1}{2.5673})$
 $\theta = 67.08^\circ$

25. $\cos \theta = -0.5432$
 $\theta = \cos^{-1}(-0.5432)$
 $\theta = 122.9^\circ$

26. $\csc \theta = -1.2345$
 $\sin \theta = \frac{1}{-1.2345}$
 $\theta = \sin^{-1}(\frac{1}{-1.2345})$
 $\theta = -54.1^\circ$

27. $\cot \theta = 0.9876$
 $\tan \theta = \frac{1}{0.9876}$
 $\theta = \tan^{-1}(\frac{1}{0.9876})$
 $\theta = 45.36^\circ$