

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

1.  $\sin 198^\circ 14' 17''$   
 $-0.3130$

2.  $\cos(-239.43^\circ)$   
 $-0.5026$

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

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

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

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

7.  $\sin 4.8$   
 $-0.9962$

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

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

10.  $\csc\left(-\frac{7\pi}{3}\right)$   
 $-1.1547$

11.  $\sec 29^\circ 42' 37''$   
 $1.1514$

12.  $\cot(-2.3)$   
 $0.8935$

13.  $\cos 5.9$   
 $0.9275$

14.  $\csc(-3.7)$   
 $1.8874$

15.  $\cot(-143^\circ 42' 57'')$   
 $1.3621$

Find the measure of each angle  $\theta$  in degrees. Round your answer to the nearest minute.

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

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

18.  $\csc \theta = 1.1033$   
 $\theta = \sin^{-1}(1/1.1033)$   
 $\theta = 65^\circ 1'$

19.  $\cot \theta = -0.7523$   
 $\theta = \tan^{-1}(1/-0.7523)$   
 $\theta = -53^\circ 31'$

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

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

Find the measure of each angle  $\theta$  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.  $\sec \theta = 2.5673$   
 $\theta = \cos^{-1}(1/2.5673)$   
 $\theta = 67.08^\circ$

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

26.  $\csc \theta = -1.2345$   
 $\theta = \sin^{-1}(1/-1.2345)$   
 $\theta = -54.10^\circ$

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