

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.  $\cot 281.29^\circ$

$\frac{1}{\tan(281.29^\circ)} = -0.1996$

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

$\frac{1}{\cos(-\frac{5\pi}{7})} = -1.6039$

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

$\frac{1}{\sin 16^\circ 29'} = 3.5244$

7.  $\sin 4.8$  Radian

$-0.9962$

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.  $\cot(-2.3)$  Radian

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

13.  $\cos 5.9$  Radian

$0.9275$

14.  $\csc(-3.7)$  Radian

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

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

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

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

16.  $\cos \theta = -0.8123$

$\theta = \cos^{-1}(-0.8123)$   
 $144.3212602^\circ (60)$   
 $144^\circ 19'$

17.  $\tan \theta = 2.1091$

$\theta = \tan^{-1}(2.1091)$   
 $64.63209114^\circ (60)$   
 $64^\circ 38'$

18.  $\csc \theta = 1.1033$

$\sin \theta = \frac{1}{1.1033}$   
 $\theta = \sin^{-1}(\frac{1}{1.1033})$   
 $65.0086790^\circ (60)$   
 $65^\circ 1'$

19.  $\cot \theta = -0.7523$

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

20.  $\sec \theta = -1.1173$

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

21.  $\sin \theta = -0.5146$

$\theta = \sin^{-1}(-0.5146)$   
 $\theta = -30.97077218^\circ (60)$   
 $\theta = -30^\circ 58'$

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.  $\sec \theta = 2.5673$

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

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.  $\cot \theta = 0.9876$

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