

Use a calculator to find each value. Round to four decimal places.

1. $\sin 15^\circ 33'$
0.2681

2. $\cos 114^\circ 12'$ -0.4099

3. $\tan 305^\circ 47'$
-1.3874

4. $\cot 77^\circ 31'$
 $\frac{1}{\tan 77^\circ 31'}$ 0.2214

5. $\sec 118^\circ 40'$
 $\frac{1}{\cos 118^\circ 40'}$ -2.0846

6. $\csc 213^\circ 31'$
 $\frac{1}{\sin 213^\circ 31'}$ -1.8110

Use the radian mode to find the following to four decimal places.

7. $\sin 2$
0.9093

8. $\cos(-4)$
-0.6536

9. $\cot(-1.2)$
 $\frac{1}{\tan(-1.2)}$ = -0.3888

10. $\csc 3.41$
 $\frac{1}{\sin 3.41}$ -3.7708

If $0^\circ \leq \theta \leq 90^\circ$, find each angle correct to the nearest minute.

11. $\sin \theta = 0.1567$
 $\theta = \sin^{-1}(0.1567) \approx 9^\circ 1'$

14. $\cot \theta = 0.1576$ ^{81°3'}
 $\tan \theta = \frac{1}{0.1576}$ so $\theta = \tan^{-1}\left(\frac{1}{0.1576}\right)$

12. $\tan \theta = 2.3142$
 $\theta = \tan^{-1}(2.3142) \approx 66^\circ 38'$

15. $\sec \theta = 2.1504$
 $\cos \theta = \frac{1}{2.1504}$ so $\theta = \cos^{-1}\left(\frac{1}{2.1504}\right) \approx 62^\circ 17'$

13. $\cos \theta = 0.7614$
 $\theta = \cos^{-1}(0.7614) \approx 40^\circ 25'$

16. $\csc \theta = 4.0137$
 $\sin \theta = \frac{1}{4.0137}$ so $\theta = \sin^{-1}\left(\frac{1}{4.0137}\right)$
 $\approx 14^\circ 26'$

Degree Mode

Radian mode

Degree mode
1st Quad only