

Quiz section 7.4

1 $\sin 16^\circ = 0.3420$

2 $\cos 20^\circ = -0.9063$

3 $\cos 31^\circ = 0.6691$

4 $\sin 13^\circ = 0.7431$

5 $\cos 82^\circ = -\cos 4^\circ$

6 $\sin 145^\circ = \sin 35^\circ$

7 $\sin 320^\circ = \sin 140^\circ$

8 $\cos 170^\circ = -\cos 10^\circ$

9 $\cos 150^\circ = -\frac{\sqrt{3}}{2}$

10 $\sin(-240^\circ) = \frac{\sqrt{3}}{2}$

11 $\sin 315^\circ = -\frac{1}{\sqrt{2}}$

12 $\cos(-30^\circ) = \frac{\sqrt{3}}{2}$

13 $\sin \frac{\pi}{4} = \frac{\sqrt{2}}{2}$

14 $\cos\left(-\frac{5\pi}{6}\right) = -\frac{\sqrt{3}}{2}$

15 $\sin \frac{3\pi}{4} = \frac{\sqrt{2}}{2}$

16 $\cos -\frac{\pi}{6} = \frac{\sqrt{3}}{2}$

Section 7.5 Quiz

1 $\tan 100^\circ = -5.6713$

2 $\cot 276^\circ = -0.1051$

3 $\csc 5 = -1.0428$

4 $\sec 49^\circ = 1.5243$

5 $\tan 820 = \tan 100^\circ$

6 $\sec 290^\circ = \frac{1}{\cos 290}$

7 $\cot 185^\circ = \cot 5$

8 $\csc \frac{2\pi}{3} = \frac{2\sqrt{3}}{3}$

9 $\sin x = \frac{-7}{25}$ $\left\{ \frac{\pi}{2}, \frac{3\pi}{2}, \frac{4\pi}{3}, \frac{5\pi}{3}, \frac{5\pi}{4}, \frac{7\pi}{4} \right\}$

10 $\sec x = \frac{\sqrt{2}}{-1}$ $(\frac{4\pi}{3}, \frac{5\pi}{3}, \frac{3\pi}{2}, \frac{3\pi}{2}, 0, \pi)$

11 $\csc 300^\circ = -\frac{2\sqrt{3}}{3}$

12 $\sec -225^\circ = -\sqrt{2}$

13 $\cot 180^\circ = \text{undefined}$

14 $\tan 240 = \sqrt{3}$

Section 7.6 Quiz

1 $\tan^{-1} 0.23 = 12.95^\circ$

2 $\sin^{-1} 0.345 = 20.18^\circ$

3 $\cos^{-1} \frac{3}{4} = 41.41$

4 $\tan^{-1} -0.23 = -12.95^\circ$

5 $\sin^{-1} 1 = 90^\circ$



6 $\cos^{-1} 1 = 0$



7 $\tan^{-1} \left(-\frac{3}{4}\right) = -36.87^\circ$



8 $\cos^{-1} \frac{1}{\sqrt{2}} = 45^\circ$



9 $\sin^{-1} \left(\frac{-\sqrt{3}}{2}\right) = -60^\circ$



10 $\tan^{-1} 1 = 45^\circ$



11 $\cos^{-1} \left(-\frac{1}{2}\right) = 120^\circ$



12) $\sin^{-1} \left(-\frac{1}{\sqrt{2}}\right) = -45^\circ$

