

Find the exact value of the expression.

1.  $\cos\left(\sin^{-1}\frac{\sqrt{2}}{2}\right) =$       2.  $\sin\left(\cos^{-1}\frac{1}{2}\right) =$       3.  $\tan\left(\cos^{-1}\frac{-\sqrt{3}}{2}\right) =$

4.  $\sec\left(\cos^{-1}\frac{-1}{2}\right) =$       5.  $\cot\left(\sin^{-1}\frac{-1}{2}\right) =$       6.  $\csc(\tan^{-1}1) =$

7.  $\sin^{-1}(\cos 30^\circ) =$       8.  $\cos^{-1}(\sin 45^\circ) =$       9.  $\tan^{-1}(\tan 120^\circ) =$

10.  $\sin^{-1}\left(\cos\frac{3\pi}{4}\right) =$       11.  $\cos^{-1}\left(\sin\frac{7\pi}{6}\right) =$       12.  $\cos^{-1}\left(\sin\frac{7\pi}{4}\right) =$

Find the exact value of the expression by drawing a picture and using the Pythagorean Theorem

1.  $\cos\left(\sin^{-1}\frac{1}{\sqrt{5}}\right) =$       2.  $\sin(\tan^{-1}(-3)) =$       3.  $\tan\left(\cos^{-1}\frac{1}{3}\right) =$

4.  $\sec\left(\sin^{-1}\frac{2}{5}\right) =$       5.  $\cot\left(\cos^{-1}\frac{-\sqrt{3}}{3}\right) =$       6.  $\csc\left(\tan^{-1}\frac{1}{2}\right) =$