

Find the exact value of the real number.

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

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

$$3) y = \sin^{-1}(-0.5)$$

$$4) y = \arctan(1)$$

$$5) y = \arccos\left(\frac{\sqrt{2}}{2}\right)$$

Use a calculator to find the approximate value in degrees. Then draw the triangle that represents the information. Give the reference angle if necessary.

$$6) \sin^{-1}(0.549)$$

$$7) \cos^{-1}(-0.9397)$$

Use a calculator to find the approximate value in radians. Then draw the triangle that represents the information. Give the reference angle if necessary.

8)  $\tan^{-1}(-0.7847)$

Find the exact value

9)  $\arccos[\sin(\pi/6)]$

10)  $\arctan[\sin(\pi/2)]$

11) Find the exact value of the following by drawing a triangle in the correct quadrant

$$\cos\left(\arcsin\left(\frac{1}{4}\right)\right)$$