

Find the exact value of each expression:

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

$$\tan\left(\sin^{-1}-\frac{1}{2}\right)$$

$$\sec(\tan^{-1}\sqrt{3})$$

$$\cot[\sec^{-1}(-2)]$$

$$\tan^{-1}\left[\tan\frac{2\pi}{3}\right]$$

$$\csc\left[\cos^{-1}\left(-\frac{\sqrt{3}}{2}\right)\right]$$

$$\sin^{-1}\left(\cos\frac{3\pi}{4}\right)$$

$$\sec\left(\sin^{-1}\frac{2\sqrt{5}}{5}\right)$$

$$\csc^{-1}\left[\sec\frac{4\pi}{3}\right]$$