

Inverse Trig Functions
Evaluate each expression.

$$[1] \sin^{-1} \frac{1}{2}$$

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

$$[3] \sin^{-1} 1$$

$$[4] \sin^{-1} \frac{\sqrt{3}}{2}$$

$$[5] \sin^{-1} \left(-\frac{\sqrt{3}}{2} \right)$$

$$[6] \sin^{-1} (-1)$$

$$[7] \sin^{-1} \frac{1}{\sqrt{2}}$$

$$[8] \sin^{-1} \left(-\frac{1}{\sqrt{2}} \right)$$

$$[9] \sin^{-1} (0)$$

$$[10] \cos^{-1} \frac{1}{2}$$

$$[11] \cos^{-1} \left(-\frac{1}{2} \right)$$

$$[12] \cos^{-1} 1$$

$$[13] \cos^{-1} \frac{\sqrt{3}}{2}$$

$$[14] \cos^{-1} \left(-\frac{\sqrt{3}}{2} \right)$$

$$[15] \cos^{-1} (-1)$$

$$[16] \cos^{-1} \frac{1}{\sqrt{2}}$$

$$[17] \cos^{-1} \left(-\frac{1}{\sqrt{2}} \right)$$

$$[18] \cos^{-1} (0)$$

$$[19] \tan^{-1} 1$$

$$[20] \tan^{-1} (-1)$$

$$[21] \tan^{-1} \sqrt{3}$$

$$[22] \tan^{-1} (-\sqrt{3})$$

$$[23] \tan^{-1} \frac{1}{\sqrt{3}}$$

$$[24] \tan^{-1} \left(-\frac{1}{\sqrt{3}} \right)$$

$$[25] \tan^{-1} 0$$

$$[26] \sec \left(\sin^{-1} \frac{1}{2} \right)$$

$$[27] \csc \left(\cos^{-1} \frac{1}{2} \right)$$

$$[28] \tan^{-1}\left(\tan\frac{5\pi}{4}\right)$$

$$[29] \sin^{-1}\left(\sin\frac{11\pi}{6}\right)$$

$$[30] \cos^{-1}\left(\cos\frac{4\pi}{3}\right)$$

$$[31] \tan^{-1}\left(\tan\frac{2\pi}{3}\right)$$

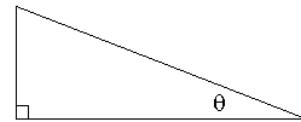
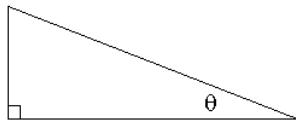
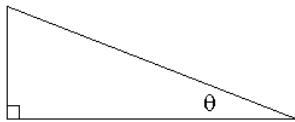
$$[32] \sin^{-1}\left(\sin\frac{3\pi}{4}\right)$$

$$[33] \cos^{-1}\left(\cos\frac{5\pi}{6}\right)$$

$$[34] \cos\left(\sin^{-1}\frac{15}{17}\right)$$

$$[35] \sec\left(\sin^{-1}\frac{9}{41}\right)$$

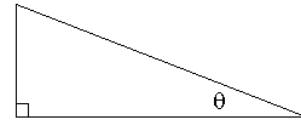
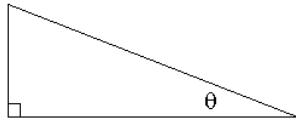
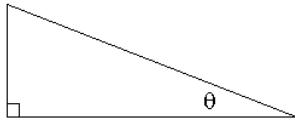
$$[36] \csc\left(\cos^{-1}\frac{7}{25}\right)$$



$$[37] \tan\left(\cos^{-1}\frac{9}{41}\right)$$

$$[38] \sin\left(\tan^{-1}\frac{8}{15}\right)$$

$$[39] \sec\left(\tan^{-1}\frac{12}{5}\right)$$



$$[40] \cos\left(\sin^{-1}\frac{24}{25}\right)$$

$$[41] \cot\left(\cos^{-1}\frac{40}{41}\right)$$

$$[42] \sin\left(\tan^{-1}\frac{7}{24}\right)$$

