

REDEMPTION [Inverse Trig]

Find the exact value of each expression.

1) $\sin^{-1} \frac{\sqrt{2}}{2}$

2) $\sin^{-1} -\frac{\sqrt{3}}{2}$

3) $\cos^{-1} -1$

4) $\sin^{-1} -\frac{1}{2}$

5) $\tan^{-1} \sqrt{3}$

6) $\cos^{-1} -\frac{\sqrt{2}}{2}$

7) $\tan^{-1} 0$

8) $\tan^{-1} -\frac{\sqrt{3}}{3}$

9) $\cos^{-1} \left(\tan \frac{\pi}{4} \right)$

10) $\tan^{-1} \left(\cot \frac{\pi}{6} \right)$

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

12) $\cot \sin^{-1} \frac{\sqrt{3}}{2}$

13) $\cos \tan^{-1} \sqrt{3}$

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

15) $\sin^{-1} (\sec 0)$

16) $\cos^{-1} \left(\tan -\frac{\pi}{4} \right)$

REDEMPTION [Inverse Trig]

Find the exact value of each expression.

1) $\sin^{-1} \frac{\sqrt{2}}{2}$

$\frac{\pi}{4}$

2) $\sin^{-1} -\frac{\sqrt{3}}{2}$

$-\frac{\pi}{3}$

3) $\cos^{-1} -1$

π

4) $\sin^{-1} -\frac{1}{2}$

$-\frac{\pi}{6}$

5) $\tan^{-1} \sqrt{3}$

$\frac{\pi}{3}$

6) $\cos^{-1} -\frac{\sqrt{2}}{2}$

$\frac{3\pi}{4}$

7) $\tan^{-1} 0$

0

8) $\tan^{-1} -\frac{\sqrt{3}}{3}$

$-\frac{\pi}{6}$

9) $\cos^{-1} \left(\tan \frac{\pi}{4} \right)$

0

10) $\tan^{-1} \left(\cot \frac{\pi}{6} \right)$

$\frac{\pi}{3}$

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

$\frac{2\pi}{3}$

12) $\cot \sin^{-1} \frac{\sqrt{3}}{2}$

$\frac{\sqrt{3}}{3}$

13) $\cos \tan^{-1} \sqrt{3}$

$\frac{1}{2}$

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

$\frac{\pi}{4}$

15) $\sin^{-1} (\sec 0)$

$\frac{\pi}{2}$

16) $\cos^{-1} \left(\tan -\frac{\pi}{4} \right)$

π