

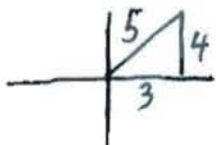
Inverse Trigonometric Function WS

1) $\tan^{-1}(1) = \frac{\pi}{4}$ 2) $\cos^{-1}(\frac{1}{2}) = \frac{\pi}{3}$ 3) $\text{arc csc}(\frac{2}{\sqrt{3}}) = \frac{\pi}{3}$

4) $\sin^{-1}(-\frac{\sqrt{3}}{2}) = -\frac{\pi}{3}$ 4) $\cos^{-1}(\frac{\sqrt{3}}{2}) = \frac{\pi}{6}$ 6) $\tan^{-1}(-\frac{\sqrt{3}}{3}) = -\frac{\pi}{6}$

7) $\sec^{-1}(-1) = \pi$ 8) $\cos^{-1}(0) = \frac{\pi}{2}$ 9) $\cot^{-1}(1) = \frac{\pi}{4}$

10) $\tan^{-1}(\cos(\frac{\pi}{5})) = \frac{4}{3}$ 11) $\cos(\arcsin(\frac{1}{2})) = \frac{\sqrt{3}}{2}$ 12) $\cos(\arcsin(x)) = \sqrt{1-x^2}$



Calculator Use

13) $\sec^{-1}(-2.41)$

1.99867

14) $\cos^{-1}(0.137)$

1.4336

15) $\cot^{-1}(1.037)$

0.767236

16) $\sin^{-1}(-.37) =$

-0.379

17) $\tan^{-1}(2.123) =$

1.13059

18) $\csc^{-1}(-3.431) =$

-0.29575

4th per!!