

Ex3) Find the exact value of the following expressions without a calculator:

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

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

(c) $\cos^{-1}(\cos(-1.1))$

Ex4) Compose each of the six basic trig functions with $f(x) = \sin^{-1}x$ and reduce the composite function to an algebraic expression involving no trig functions

Ex5) The bottom of a 20-foot replay screen at Dodger Stadium is 45 feet above the playing field. As you move away from the wall, the angle formed by the screen at your eye (from the top of the screen to your eye, and back from your eye to the bottom of the screen) changes. There is a distance from the wall at which the angle is greatest. What is that distance?

*****This is a calculator based question*****