Answer on Question #41691, Math, Statistics and Probability

How do you find

a. cotx=√3
b. 1/cosx=-1/4

Answer in radians.

Solution

a. If $\cot x = \sqrt{3}$ then
$x = \cot^{-1}\sqrt{3} + \pi n = \frac{\pi}{6} + \pi n$, where n is integer.
b. If $\frac{1}{\cos x} = -\frac{1}{4}$ then $\cos x = -4$. This equation has no solution because range of cosine is [-1;1].