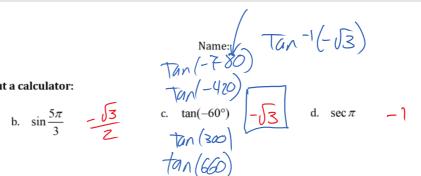
7:35 PM



Warm Up! Evaluate without a calculator:

a. cos 45°



Evaluating Inverse Trig Functions.

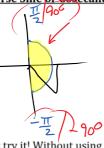
Think about it! Find an angle (in degrees) whose sine value is 1/2.

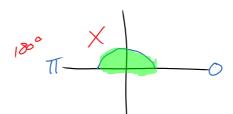
Rudians 51, VX = -

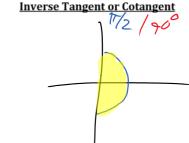
So that we only have one unique angle each time we evaluate an inverse trig function, we restrict the domain:

Inverse Cosine or Secant

Inverse Sine or Cosecant







Let's try it! Without using your calculator, evaluate the following. (Draw a picture if needed.)



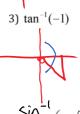




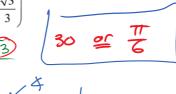


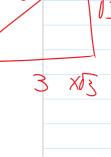




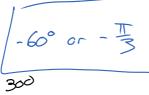




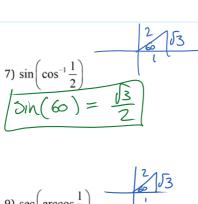


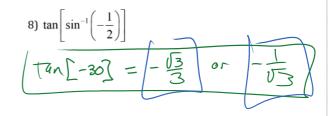


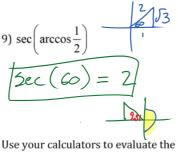












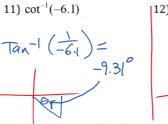
Cot x = -6.1

10)
$$\csc(\tan^{-1} l)$$

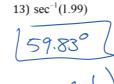
$$CSC(45) = \sqrt{2}$$

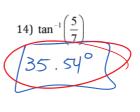
$$SECX = 1.99$$

Use your calculators to evaluate the following. Round your answer to the nearest hundredth.



$$\frac{2}{48.19}$$

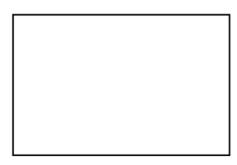




What happens when we graph an inverse function?

- (1.47) - (1.47)

Let's examine the graph $y = \cos x$ and $y = \cos^{-1} x$.





Domain: Range: Domain: Range