

October 29

How is $\arcsin(x)$
different from $\sin^{-1}(x)$?



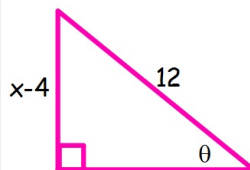
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Students will verbally explain how to
graph and evaluate inverse trig
functions

(using the words:
domain, range, angle ...)



Write θ as a function of x



$$\theta = \frac{\quad}{\quad} \text{ (with an } x \text{)}$$

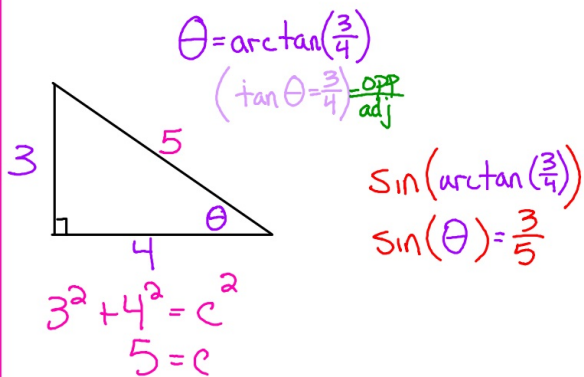
$$\sin \theta = \frac{x-4}{12}$$

$$\sin^{-1}(\sin \theta) = \sin^{-1}\left(\frac{x-4}{12}\right)$$

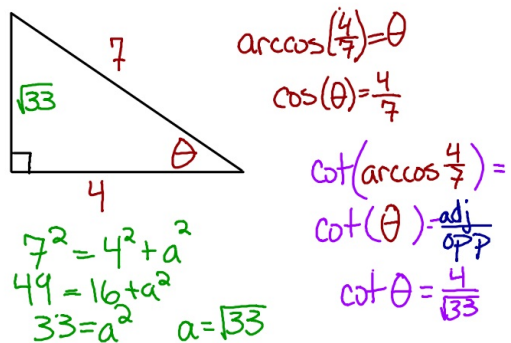
$$\theta = \sin^{-1}\left(\frac{x-4}{12}\right)$$

Use a right triangle to find the exact value

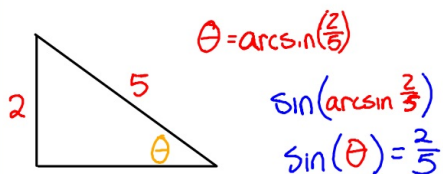
$$\sin(\arctan(3/4))$$



$$\cot(\arccos(4/7))$$



$$\sin(\arcsin(2/5)) =$$



$$\cos(\arccos(0.9)) = 0.9$$

$$\arctan(\tan(20)) = 20$$

pg 190 #4 - 18 (even), 32,
36 - 48 (even)