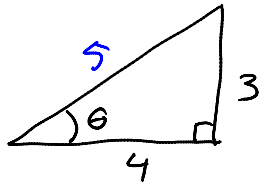


Section 4.2: Applications of Right Triangles

Friday, November 06, 2015
10:14 AM

Calculating angles:



how do you calculate θ ?

$$\sin \theta = \frac{3}{5}$$

$$\theta = \arcsin\left(\frac{3}{5}\right)$$

$$= \sin^{-1}\left(\frac{3}{5}\right)$$



NOTE: not an exponent (-1)

$$\sin^{-1}\left(\frac{3}{5}\right) \neq \frac{1}{\sin\left(\frac{3}{5}\right)}$$

so, on your calculator, you should have a button labeled " \sin^{-1} "

$$\theta = \sin^{-1}\left(\frac{3}{5}\right)$$

$$= 36.8699^\circ$$