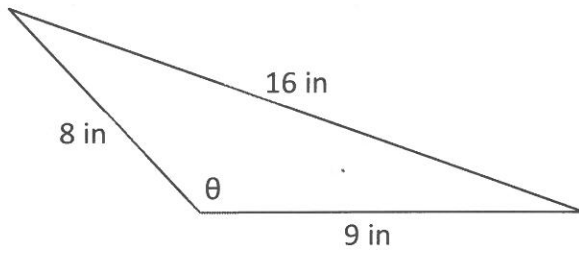
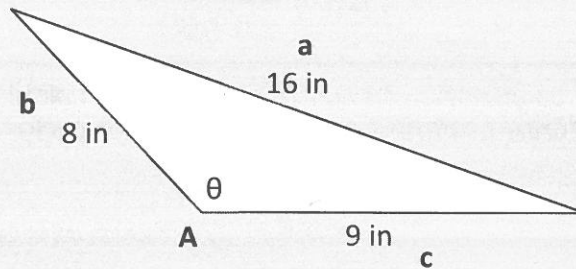


Example 4

Determine the size of the angle labelled θ .



After labelling, your triangle should look like this:



Insert your given information into the formula:

$$\cos \theta = \frac{8^2 + 9^2 - 16^2}{2(8)(9)}$$

$$\cos \theta = \frac{-111}{144}$$

(inverse cos on calculator gives you):

$$\theta = 140.43^\circ$$