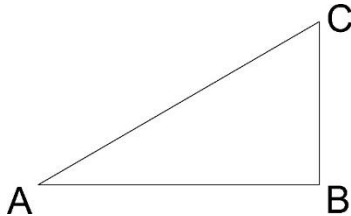


OBJECTIVES

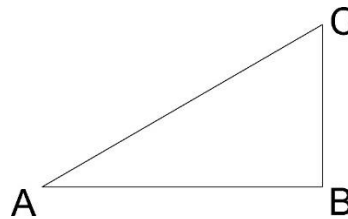
- Use inverse trigonometric ratios to find missing angles of right triangles

Label each side of the triangle as opposite, adjacent, or hypotenuse for the given angle.

W1) $\angle A$



W2) $\angle C$



The trig ratios $\sin \theta$, $\cos \theta$, $\tan \theta$ tell you the ratio between the matchings sides, which in turn can be used to find sides.

Inverse trig is used to find missing angles.

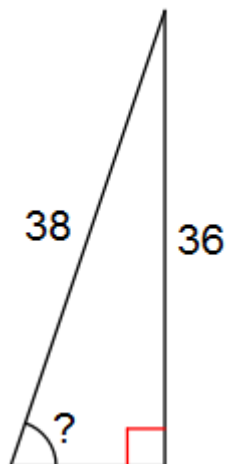
- \sin^{-1} (sometimes called arcsin)
- \cos^{-1} (sometimes called arccos)
- \tan^{-1} (sometimes called...you guessed it...arctan)

To find missing right triangle angles

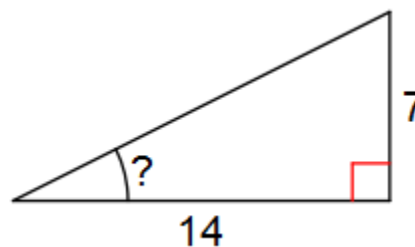
1. Set up a sine, cosine, or tangent equation
 - a) Identify the angle being used and its corresponding sides
 - b) SOH CAH TOA
2. Use \sin^{-1} , \cos^{-1} , \tan^{-1} to solve the equation for the angle

Find the missing angle.

A)

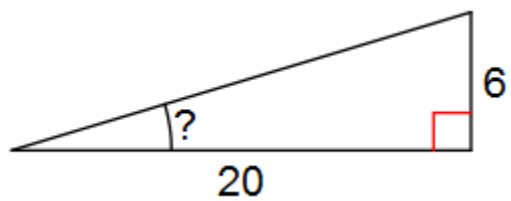


B)

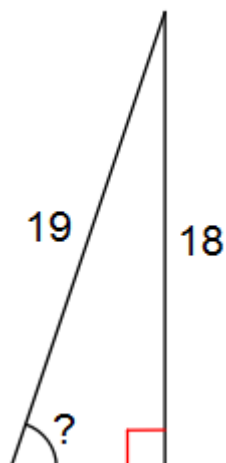


Find the missing angle.

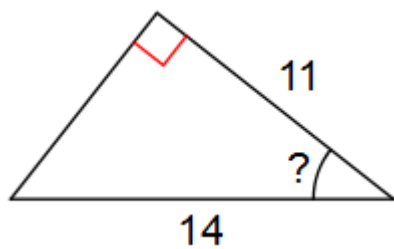
C)



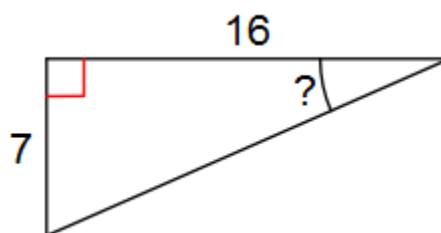
D)



E)



F)



G)

