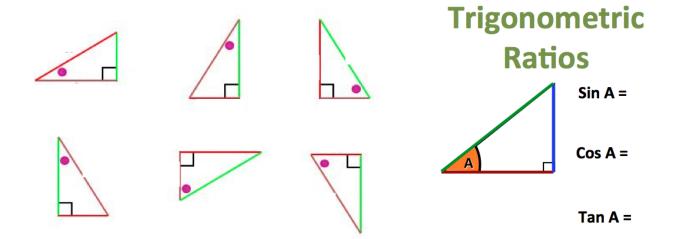
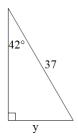
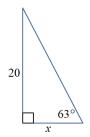
## **Introduction to Right Triangle Trigonometry**

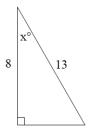
On each triangle below, the angle marked with the dot is the reference angle. Mark the sides with an "O" for opposite, "A" for adjacent, and "H" for hypotenuse based on the reference angle.

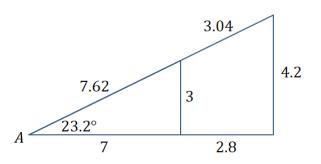


## Sample Problems:



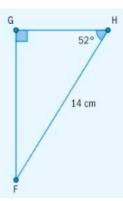




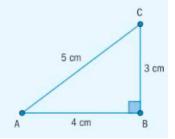


## PRACTICE:

Shown here is the right-angled triangle  $\Delta$ FGH, where FH = 14 cm, F $\hat{H}$ G = 52° and angle F $\hat{G}$ H = 90°. Find the length of side [GH].



Find the size of  $\hat{A}$  in triangle  $\Delta ABC$ , where angle  $A\hat{B}C = 90^{\circ}$ .



Emma is standing in front of a big tree. She measures her distance from the tree as AB = 15 m. She also measures  $\hat{A} = 40^{\circ}$ . Find the length BC. State what other information Emma needs in order to calculate the height of the tree.

