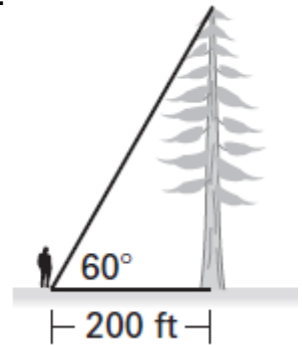
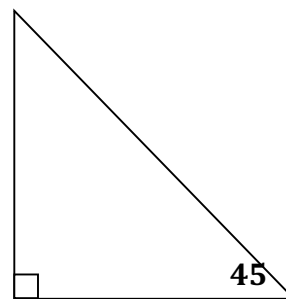
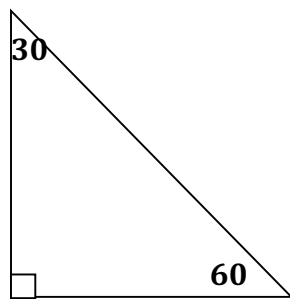


Objective: To use properties of special right triangles to find the lengths of sides.

Warm Up: You are standing 200 feet from the base of a redwood tree. You estimate the angle of elevation to the top of the tree is 60 degrees. What is the approximate height of the tree?

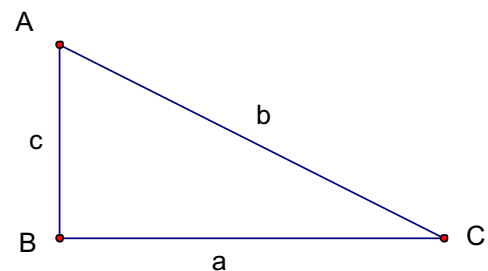


SPECIAL RIGHT TRIANGLES: 30-60-90 and 45-45-90



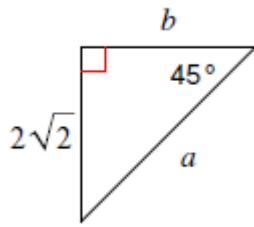
Example 1: Use trig to solve the following triangles given the following. Let angle B be a right angle:

- a =
 - b =
 - c = 5
- A = 60 degrees
 - B =
 - C =

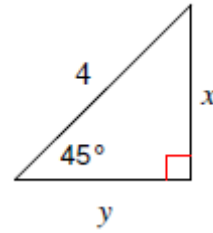


Example 2: Find the missing side(s) lengths. Leave your answers as simplified radical expressions.

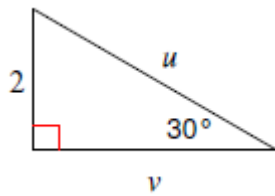
A.)



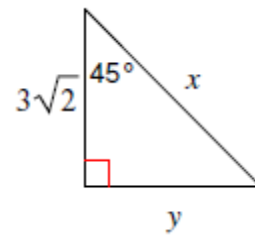
B.)



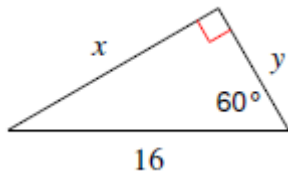
C.)



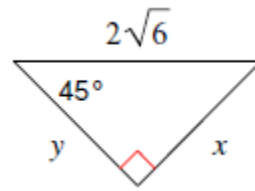
D.)



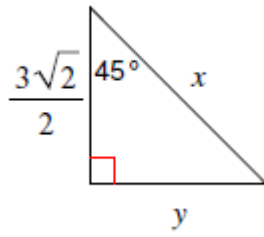
E.)



F.)



G.)



H.)

