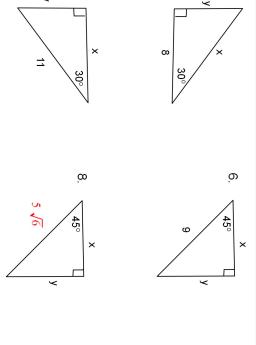
Bellwork Monday, March 24, 2014

In $\triangle ABC \angle B = 90^{\circ}$, $\angle A = 37^{\circ}$, and AB = 20.

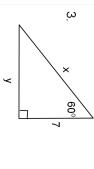
Find the measures of the other angle and the other two sides.

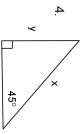


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The sides of a right triangle are whole numbers.Find the third side of the right triangle if two sides are:

For 3 to 8 find the exact value of each variable in simplified radical form. Rationalize all denominators.





 $12\sqrt{5}$

- 9. The engine on a boat has died and the captain has radioed for help. The Coast Guard helicopter sees the boat with an angle of depression of 51°. The line-of-sight distance from the helicopter to the boat it 5000 ft. How high above the boat is the helicopter?
- 10. A mother climbs a vertical ladder to get on a large slide at an amusement park. After the mother goes down the slide she sees her child at the top of the slide with an angle of elevation of 35° .
- a) If the mother is 80 feet from the ladder how long is the slide?
- b) How high is the top of the slide from the ground?