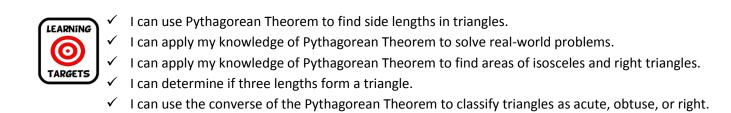
Geometry A Review for Quiz on 7.1 and 7.2

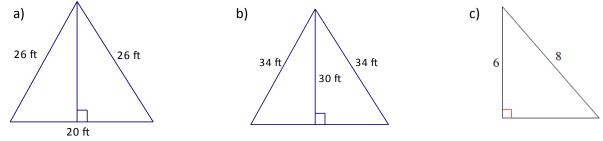
Name:	
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1. Find the value of x. Leave answer in simplest radical form.

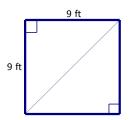


2. Find the area of the triangle. Leave answer in simplest radical form.

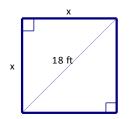


- 3. A 50-ft cable is stretched from the top of an antenna to an anchor point on the ground 15 ft from the base of the antenna. How tall is the antenna? Round to the nearest tenth.
- 4. How far from the base of a house do you need to place an 18 foot ladder so that it exactly reaches the top of a 15 foot wall? Round your answer to the nearest foot.

5. Find the length of the diagonal in the square below. Round answer to nearest hundredth.



6. Find the value of x in the square below. Round answer to the nearest hundredth.



- 7. Two side lengths of a right triangle are 6 and 8.
 - a) Assuming the missing side is the hypotenuse, what is the length of the hypotenuse, to the nearest tenth?
 - b) Assuming the missing side is a leg, what is the length of the missing leg, to the nearest tenth?

- 8. Three segment lengths are given below. Decide whether the segments can form a triangle. If so, classify the triangle as acute, right, or obtuse.
 - a) 5, 8, 12 b) 5, 6, 12 c) 8, 9, 12

9. Two sides of a triangle are 18 in and 30 in. Describe the possible values for the third side.

Answers:

1 a) $8\sqrt{3}$ km b) $\sqrt{10}$ yd2. a) 240 ft²b) 480 ft² c) $6\sqrt{7}$ sq. units3. 47.7 ft4. 10 ft5. 12.7 ft6. 12.7 ft7. a) 10b) 5.38. a) triangle; obtuseb) not a trianglec) triangle; acute9. 12 < x < 48