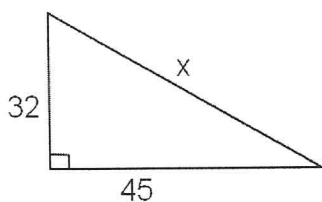


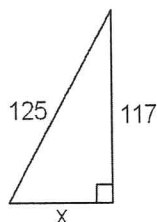
# Geometry Final Exam Review Chapter 8 Spring 2014

Find the missing side in each right triangle. Give the answer to the nearest hundredth unless noted otherwise.

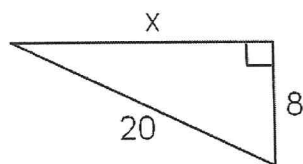
1.



2.



3. Give answer in simplest radical form.



2. The sides of a triangle are integers. Given two sides find the third side. In other words, find the third number in each Pythagorean Triple.

a) 91, 109, ?

b) 88, 105, ?

3. The three sides of a triangle are given. Classify each triangle as Right, Acute, or Obtuse.

a) 65, 72, 93

b) 36, 77, 85

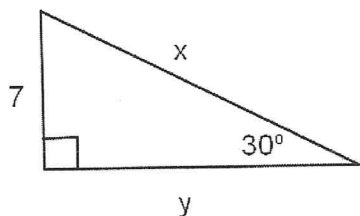
c) 17, 144, 141

d) 39, 80, 91

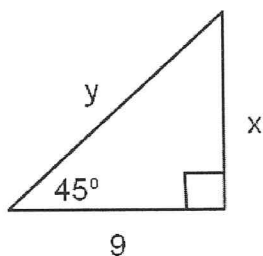
4. A 24 foot long ladder is leaned against a wall. The end of the ladder on the ground is 7 feet from the wall. Find the how high the ladder can reach up the wall to the nearest tenth.

Find the EXACT value of x and y in each Special Right Triangle. Rationalize denominators when necessary.

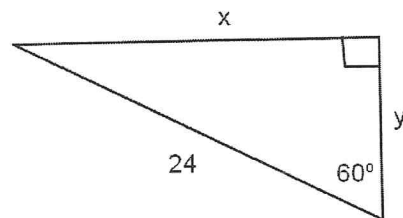
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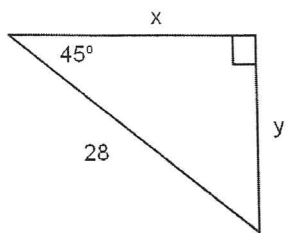
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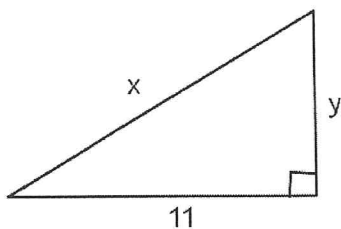
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8.

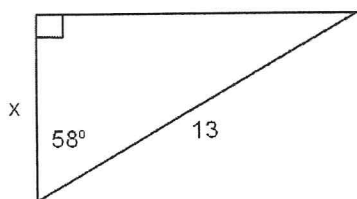


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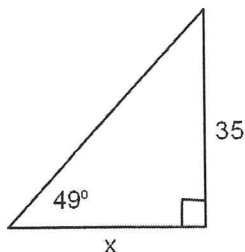


Find the value of x in each triangle to the nearest hundredth.

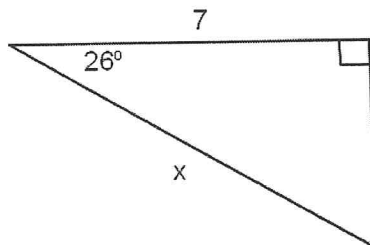
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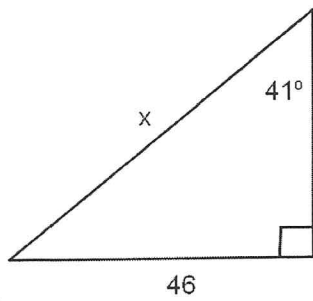
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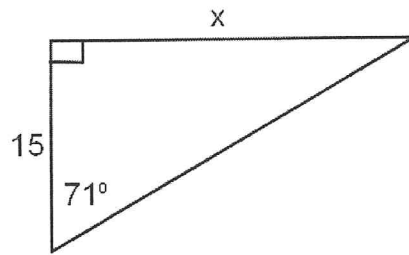
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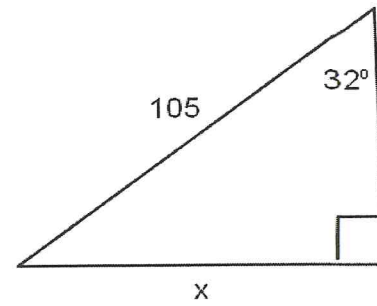
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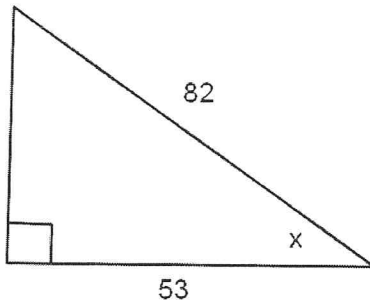
14.



15.



16. find the measure of  $x$  to the nearest tenth of a degree.



17. You are at the top of a 120ft tall building and see your friend on the ground with an angle of depression of  $37^\circ$ . Find the distance your friend is from the building to the nearest tenth of a foot.

18. You are holding on to 200 foot long string attached to a kite. You see the kite with an angle of elevation of  $59^\circ$ . Find the height of the kite to the nearest tenth of a foot.