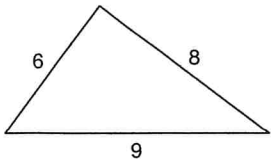


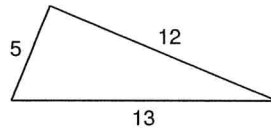
The Pythagorean Theorem

Do the following lengths form a right triangle?

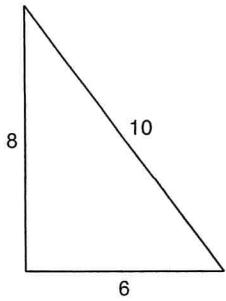
1)



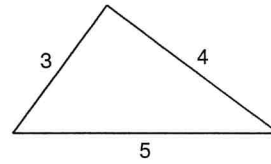
2)



3)



4)

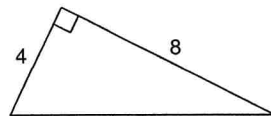


5) $a = 6.4$, $b = 12$, $c = 12.2$

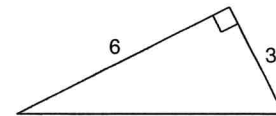
6) $a = 2.1$, $b = 7.2$, $c = 7.5$

Find each missing length to the nearest tenth.

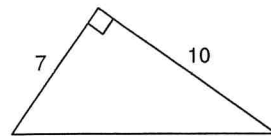
7)



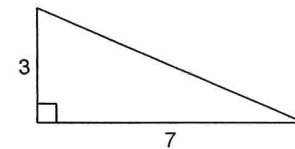
8)



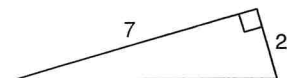
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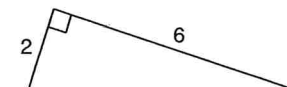
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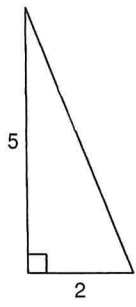
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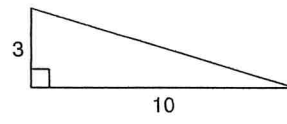
12)



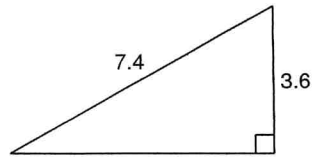
13)



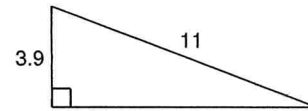
14)



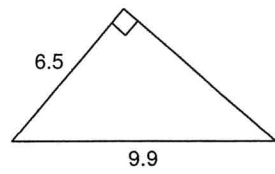
15)



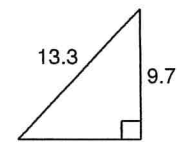
16)



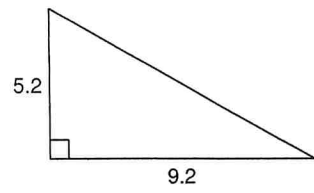
17)



18)



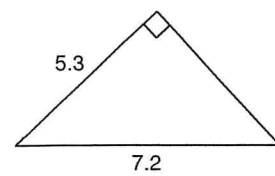
19)



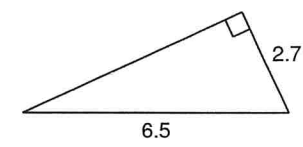
20)



21)



22)



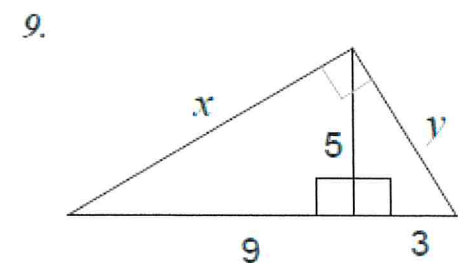
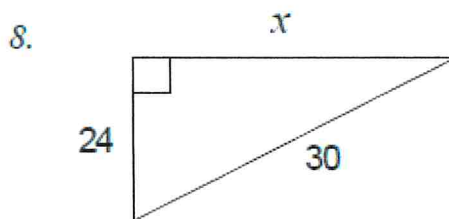
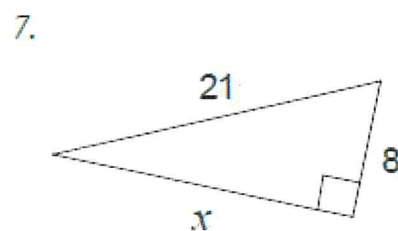
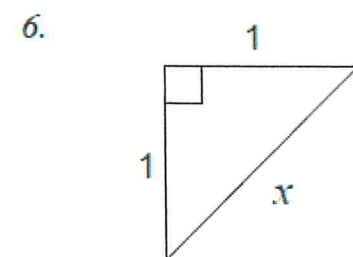
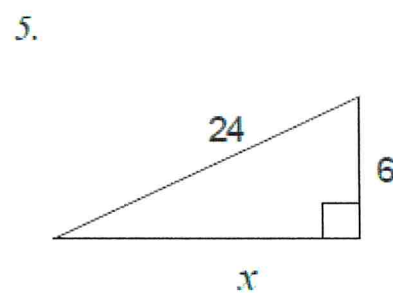
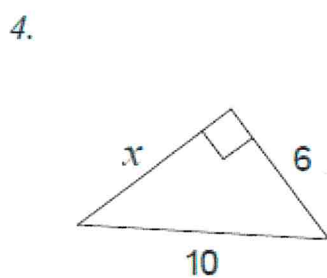
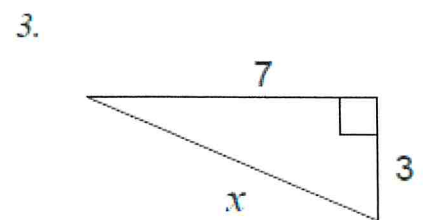
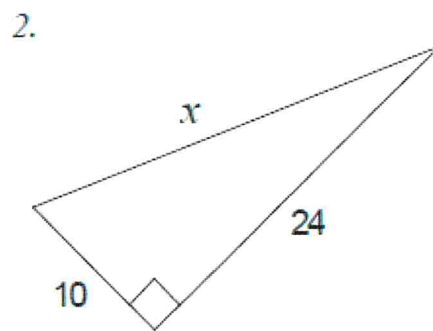
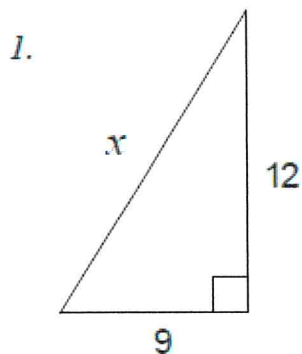
Date: _____ /30 Name: _____

Pythagorean Theorem Assignment

A) Calculate the measure of x in each.

Where necessary, round your answer correct to one decimal place.

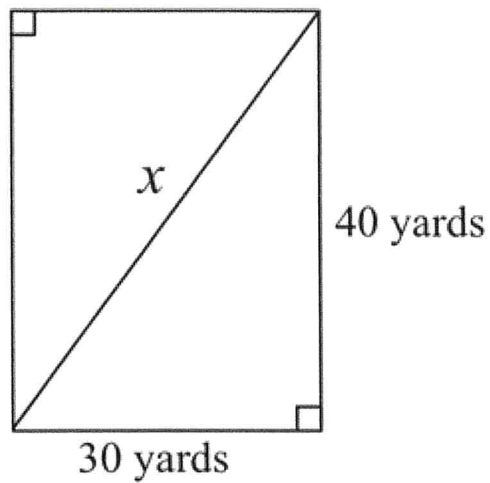
Complete on a separate piece of paper.



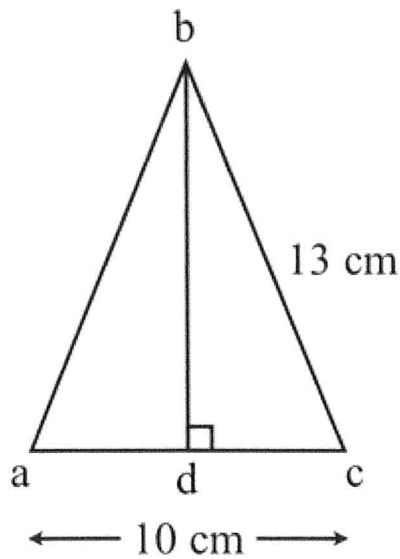
B) A ladder is leaning against the side of a 10m house. If the base of the ladder is 3m away from the house, how tall is the ladder?

Draw a diagram and show all work.

C) What is the length of the diagonal?



D) What is the length of bd ?



E) Use the Pythagorean Theorem to find out if these are right triangles.

Justify your answers.

