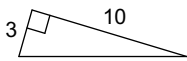


Homework #5 - Pythagorean Theorem

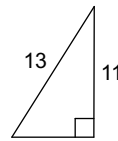
Date _____

Find each missing length to the nearest tenth.

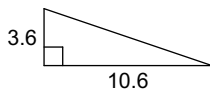
1)



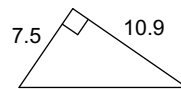
2)



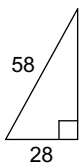
3)



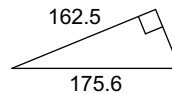
4)



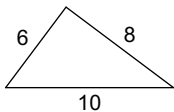
5)



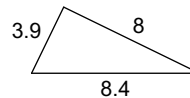
6)

**Do the following lengths form a right triangle?**

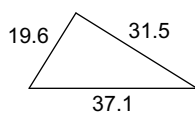
7)



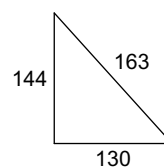
8)



9)



10)



Read the question twice. Draw the situation, labelling the sides. Solve the missing side. Write the answer in a sentence.

- 11) A 35-foot ladder is leaning against the side of a building and is positioned such that the base of the ladder is 21 feet from the base of the building. How far above the ground is the point where the ladder touches the building?
- 12) Shari went to a level field to fly a kite. She let out all 650 feet of the string and tied it to a stake. Then, she walked out on the field until she was directly under the kite, which was 600 feet from the stake. How high was the kite from the ground?