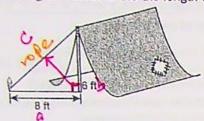
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## deview Using the Pythagorean Theorem

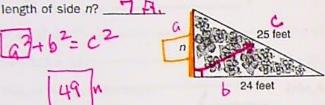
Objectives: I can apply the Pythagorean Theorem to solve real life situations involving right triangles.

state all lengths as square roots, then approximate to the nearest hundredth. If a diagram is not provided, you must draw one.

1) A tent is supported by a guy rope tied to a stake, as shown in the diagram. What is the the length of the rope?

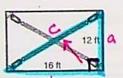


2) Stephanie is planning a right triangular garden. She marked two sides that measure 24 feet and 25 feet. What is the

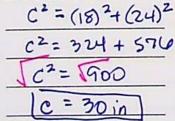


A builder needs to add diagonal braces to a wall. The wall is
 16 feet wide by 12 feet high. What is the length of each brace?

205+.



The diagram at the right shows how a post was broken. What was the original height of the post?



ht of the post? 4.5 ft

2 feet

Hint: You have to use the same size units.

Either change to inches or change to feet.

144+256

2(12in)

541

5) A wire is stretched from the top of an 8-ft pole to a bracket 5 ft. from the base of the pole. How long is the wire?  $c^2 = c^2 + c^2$ 

[Draw diagram here.]

