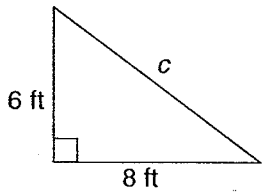
Name: _____ Date: _____ Class: _____

Pythagorean Theorem Practice

Use the Pythagorean Theorem to find each missing length.

1.



$a^2 + b^2 = c^2$

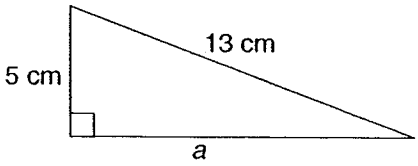
$\_\_\_^2 + \_\_\_^2 = c^2$

$\_\_\_ + \_\_\_ = c^2$

$\_\_\_ = c^2$

$c = \_\_\_$

2.



$a^2 + b^2 = c^2$

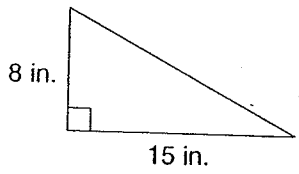
$a^2 + \_\_\_^2 = \_\_\_^2$

$a^2 + \_\_\_ = \_\_\_$

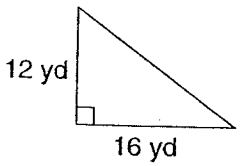
$a^2 = \_\_\_$

$a = \_\_\_$

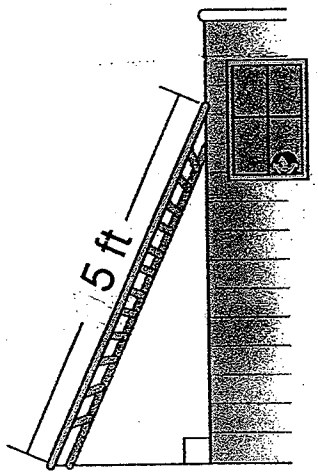
3.



4.



5. A 5-foot ladder is leaning against a wall. The ladder is 3 ft from the base of the wall. About how far above the ground does the ladder touch the wall?



6. The football field at the University of Texas at Arlington is 60 yards by 100 yards. Is the length of the diagonal across this field more or less than 200 yards? Explain.

Hint: Draw a picture!