Pythagorean Theorem: Story Problems Worksheet

1) A right triangle has one leg that measures 12 inches and a hypotenuse that measures 13 inches.

a. Draw a picture of this triangle.   b. Find the area of this triangle.   c. Find the perimeter of this triangle.

2) A 20-foot ladder is leaning against a 24-foot tall building. How far away from the building must the ladder be so that it reaches a window that is 6 feet below the top of the building? Draw a picture to help.

3) Bob drives 10 miles east, then 3 miles south, then 4 miles west. How far away from his starting point does he end up? Draw a picture to help.

4) Find the distance between the points (101, 450) and (200, -50).

5) **(Multiple choice; show all work!)** To the nearest tenth of a unit, what is the perimeter of a triangle with vertices at (3, 4), (2, 2) and (0, 5)? Use the graph to help you.

A) 5.3 units

B) 7.3 units

C) 8.7 units

D) 9.0 units