

Name _____

Class _____

Pythagorean Theorem Word Problems #1

Directions:

1. Draw a picture
2. Identify what is missing
3. Show all work
4. Solve—simplify your answer
5. Circle your answer

Problem#1

A fifteen foot electrical pole needs a support wire. The length from the base of the pole to the wire is five feet. How long is the wire?

Problem #2

A tall tree is broken by the wind. The top of the tree, which is eighteen feet, falls and touches the ground twelve feet from the base. How many feet from the base of the tree did the break occur?

Problem #3

A rope from the top of a mast on a sailboat is attached to a point two meters from the base of the mast. If the rope is eight meters long, how high is the mast?