Name _____ Date _____ Class_____
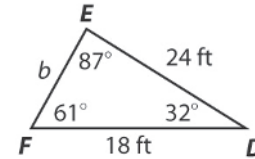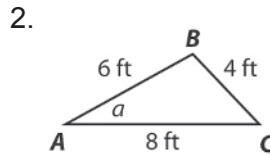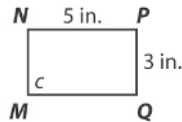
Using Similar Shapes

Practice and Problem Solving: A/B

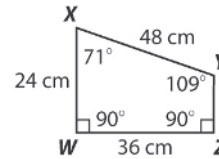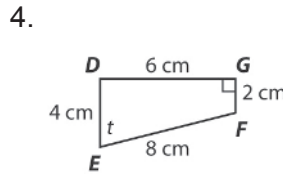**The triangles in each pair are similar. Find the unknown measures.**

1.

2.

_____   _____
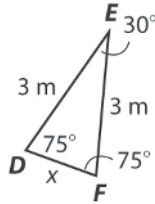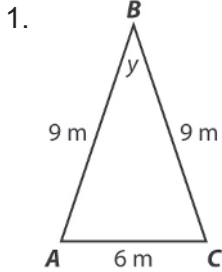
The figures in each pair are similar. Find the unknown measures.

3.

4.

_____   _____
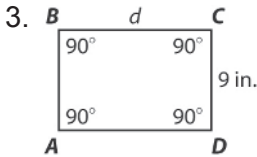
Solve.

5. Lydia wants to find the height of a flagpole. She measures the height of a tree and the length of the shadow it casts. The tree is 4 feet tall, and its shadow is 8.8 feet long. Next, Lydia measures the shadow cast by the flagpole, and finds it is 22 feet long. What is the height of the flagpole?

_____

6. Michael wants to find the length of the shadow of a tree. He measures the height of a fencepost and the length of the shadow it casts. The fencepost is 3.5 feet tall, and its shadow is 10.5 feet long. Next, Michael measures the height of the tree, and finds it is 6 feet tall. How long is the shadow of the tree?

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