

Name _____

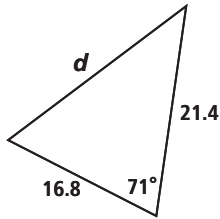
10-8A Lesson Master

Questions on SPUR Objectives
See Student Edition pages 724–727 for objectives.

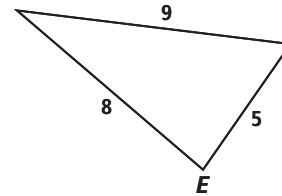
SKILLS Objective C

In 1 and 2, use the triangle below each question and find the indicated value to the nearest tenth.

1. $d =$ _____



2. $m\angle E =$ _____

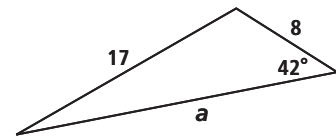


3. In $\triangle ABC$, $AB = 12$, $BC = 5.2$, and $m\angle B = 63^\circ$.

Find AC to the nearest tenth. $AC =$ _____.

4. Use the triangle at the right.

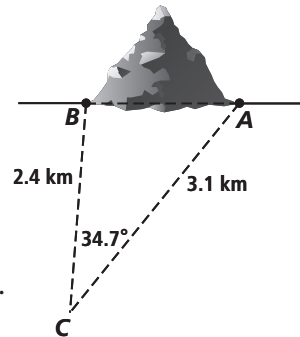
a. Write an equation you could solve to find a .



b. Use a CAS to solve your equation. _____

USES Objective H

5. Engineers building a tunnel through a mountain can't measure the distance directly, but can find the other measurements as shown at the right. How far is it from point A to point B , to the nearest tenth of a kilometer?



6. Three components on a microchip are spaced so that the distance from P to Q is 0.4 mm, from Q to R is 0.23 mm, and from R to P is 0.31 mm. Find the measure of $\angle PRQ$ to the nearest degree.

7. Casey walks due north 120 ft, then turns 60° to her right and walks 40 ft more.

a. How far is she from her starting point?

b. If she had wanted to get to the same point by walking in a straight line, at about what angle θ from north should she have walked?

