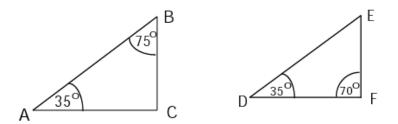
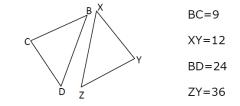
Geometry	Name	
Chapter 7 Review	Date	Per

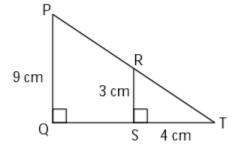
1. State whether or not the following triangles are similar and support your answer.



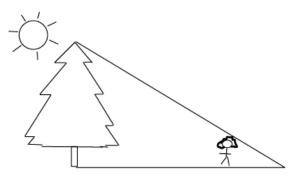
2. In the figure given to the left,  $\Delta XYZ$  is similar to  $\Delta BCD$ .



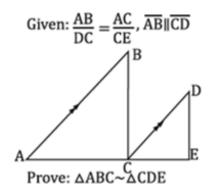
- a. Find the value of XZ.
- b. Find the value of CD
- 3. Looking at the triangles in the figure on the right:
  - a) Are the two triangles similar?
  - b) What is the length of QT?
  - c) If PT is 15 cm, what is the length of RT?



4. Tonya is 1.3 meters tall. She stands 7 meters in front of a tree and casts a shadow 1.8 meters long. How tall is the tree?

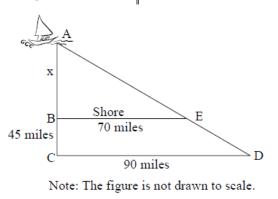


5.



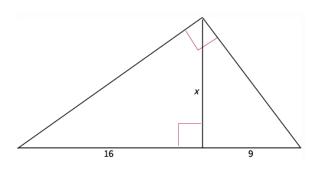
6.

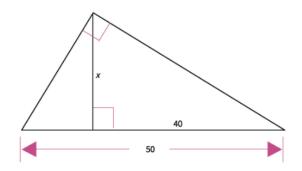
Captain Cook needs to know the distance from his ship to the shore. He knows the measures given and that  $\overline{BE} \| \overline{CD}$ .

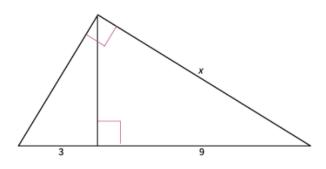


What is the distance (x) from his ship to the shore? Use mathematics to explain how you determined your answer. Use words, symbols, or both in your explanation.

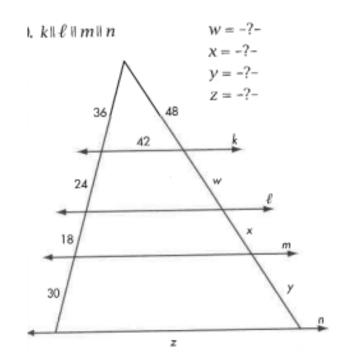
7. Solve for x.



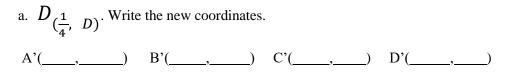




8.



9. A rectangle has vertices A(-12, -4) B(-12, 8) C(8, 8) D(8, -4).



10. Solve for the unknown value.

