## **Lesson 13: Proof of the Pythagorean Theorem**

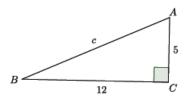
## **Classwork**

## Exercises 1-3

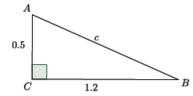
Use the Pythagorean Theorem to determine the unknown length of the right triangle.

1. Determine the length of side c in each of the triangles below.

a.

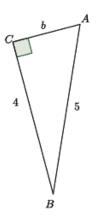


b.

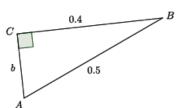


2. Determine the length of side b in each of the triangles below.

a.



b.

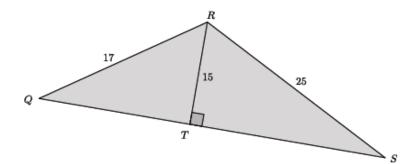




Lesson 13: Date: Proof of the Pythagorean Theorem 10/30/14



Determine the length of QS. (Hint: Use the Pythagorean Theorem twice.)



Lesson 13: Date:

Proof of the Pythagorean Theorem 10/30/14

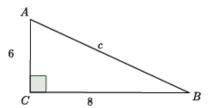


## **Problem Set**

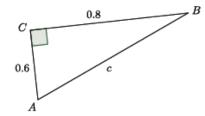
Use the Pythagorean Theorem to determine the unknown length of the right triangle.

1. Determine the length of side c in each of the triangles below.

a.

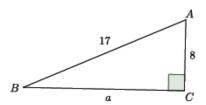


b.

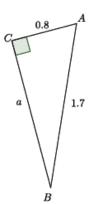


2. Determine the length of side a in each of the triangles below.

a.

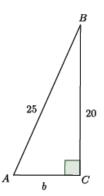


b.

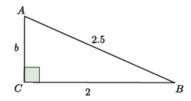


3. Determine the length of side b in each of the triangles below.

a.

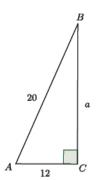


b.

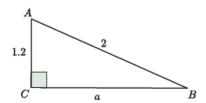


4. Determine the length of side a in each of the triangles below.

a.



b.



5. What did you notice in each of the pairs of Problems 1–4? How might what you noticed be helpful in solving problems like these?

(cc) BY-NC-SA