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.
	1. 

* 1. 

1. Determine the length of side $b$in each of the triangles below.
	1. 

* 1. 
1. Determine the length of $QS$. (Hint: Use the Pythagorean Theorem twice.)



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.
	1. 
	2. 

1. Determine the length of side $a$ in each of the triangles below.
	1. 
	2. 
2. Determine the length of side $b$in each of the triangles below.
	1. 

* 1. 

1. Determine the length of side $a$in each of the triangles below.
	1. 

* 1. 
1. 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?