

**Goal:** I will be able to \_\_\_\_\_

**Tool Bag**  
Formulas,  
equations,  
vocabulary, etc.

## Here's How...Notes & Examples

### Transformation

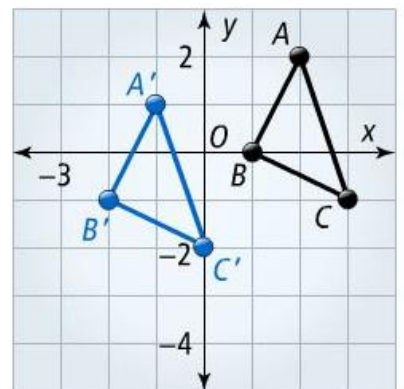
### Translation

### Reflection

### Example 1

Figure  $ABC$  is translated to  $A'B'C'$ .

a) Describe in words the translation of each point.

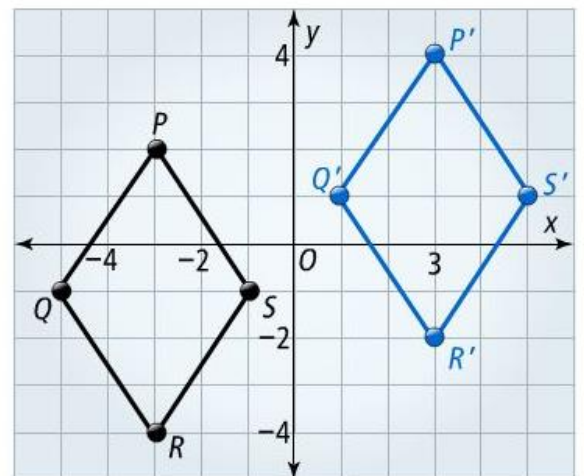


b) Use arrow notation to show the movement.

c) Write a rule to describe the translation.

### You Try

Figure  $ABC$  is translated to  $A'B'C'$ . Describe in words, use arrow notation, and write a rule to describe the translation.

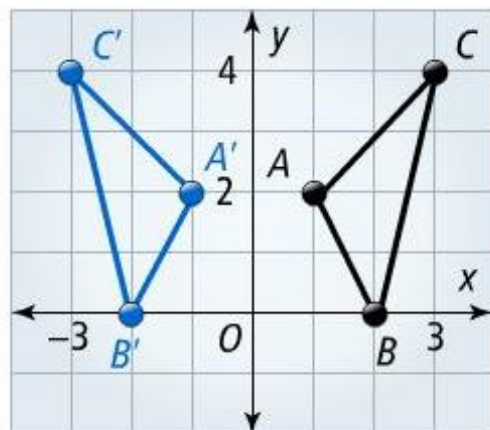


## Reflections

### Example

Triangle  $ABC$  is reflected across the  $y$ -axis to triangle  $A'B'C'$ . Each point is reflected the same distance across the line of reflection.

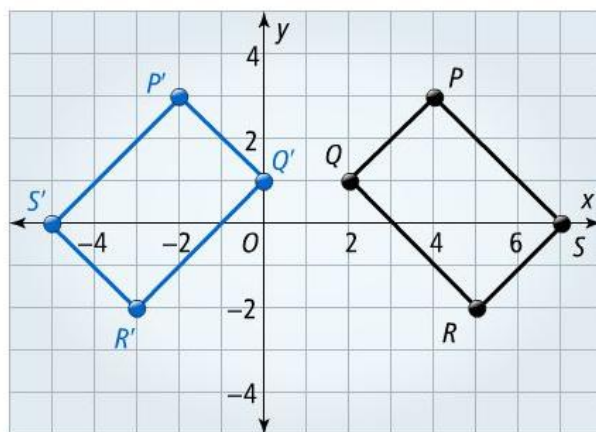
a) Describe in words how to map  $ABC$  to  $A'B'C'$ .



b) Use arrows to show each vertex from  $ABC$  to  $A'B'C'$ .

### You Try

$PQRS$  is a rectangle that is reflected. Use words and arrows to show how each vertex maps to its image.



### You Try

Create your own shape and draw it on the grid.

a) Translate it as you wish. Describe the translation in words, arrows, and a rule.

b) Reflect the shape across a line. Describe in words and arrows the reflection.

