REVIEW: Reflections

Name _____

Key Concept and Vocabulary

Line of reflection

Reflection

Flip
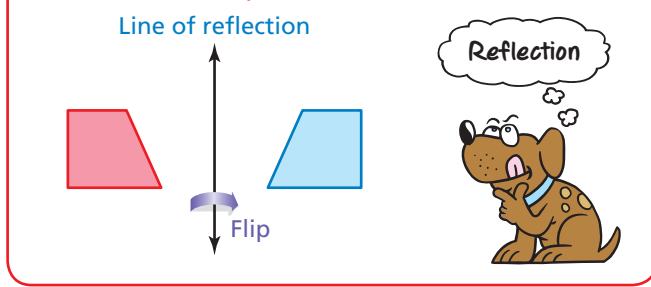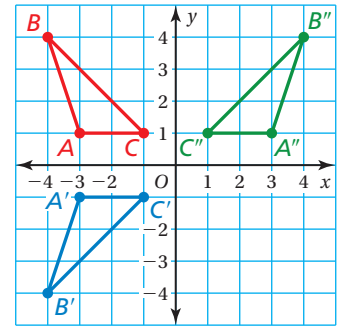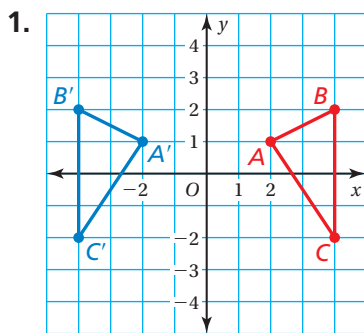
Visual Model

A reflection creates a mirror image of the original figure.

Skill Example

1.
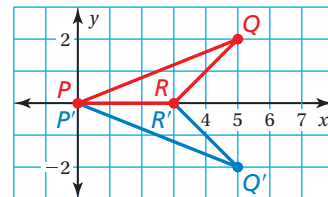
The triangle is reflected in the y-axis.

The coordinates of the image are $A'(-2, 1)$, $B'(-4, 2)$, and $C'(-4, -2)$.

Application Example

2. You design a logo using a triangle with vertices $P(0, 0)$, $Q(5, 2)$, and $R(3, 0)$. You reflect the figure in the x-axis to create the design. Draw the design in the coordinate plane.
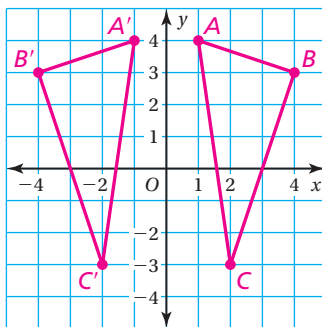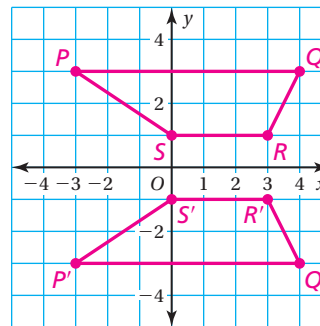
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Check your answers at BigIdeasMath.com.

Draw the figure and its reflection in the given axis.

3. $A(1, 4)$, $B(4, 3)$, $C(2, -3)$; y-axis

4. $P(-3, 3)$, $Q(4, 3)$, $R(3, 1)$, $S(0, 1)$; x-axis

5. LOGO You design a logo using the figure shown. The entire logo is a reflection in both the x-axis and in the y-axis. Draw the rest of the logo in the coordinate plane.