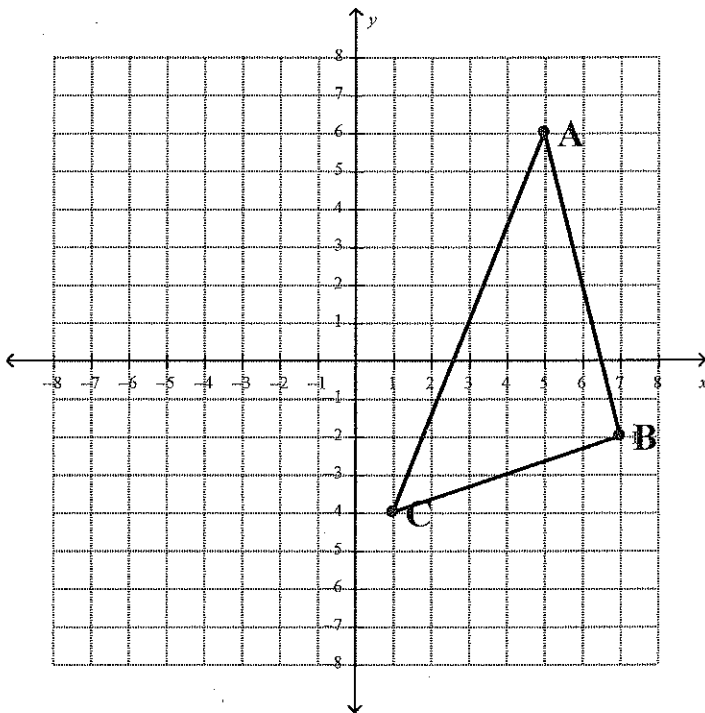


# Reflecting Figures

1. Write the class rule for reflecting a figure over the  $y$ -axis.

Reflect the following figures over the  $y$ -axis. List the coordinates of the pre-image and the coordinates of the image points.

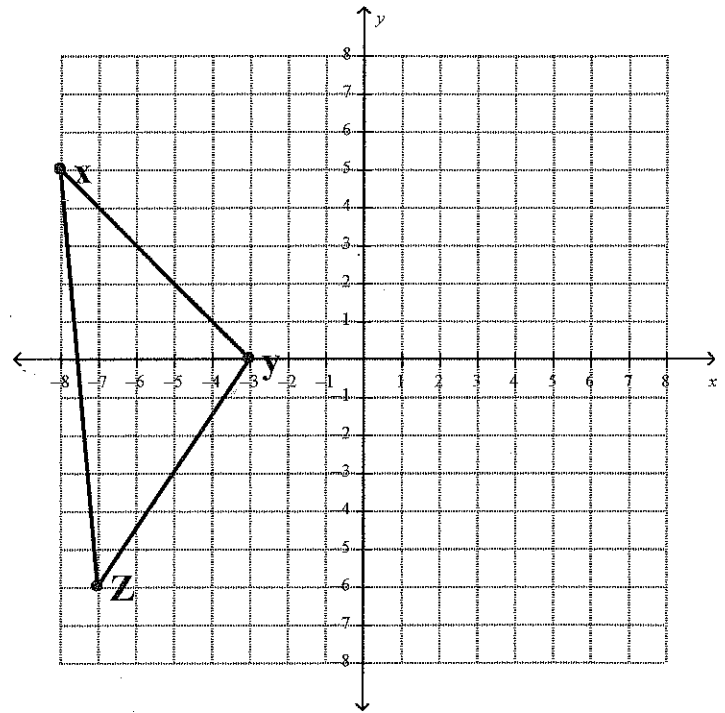
2.



Pre-Image Points:

Image Points:

3.



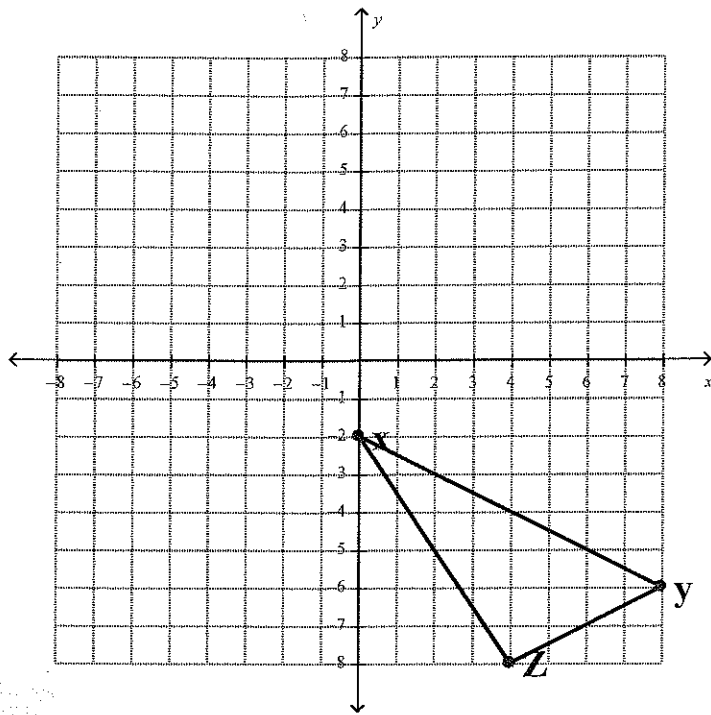
Pre-Image Points:

Image Points

4. Write the class rule for reflection a figure over the x-axis.

Reflect the following figures over the x-axis. List the coordinates of the pre-image and the coordinates of the image points.

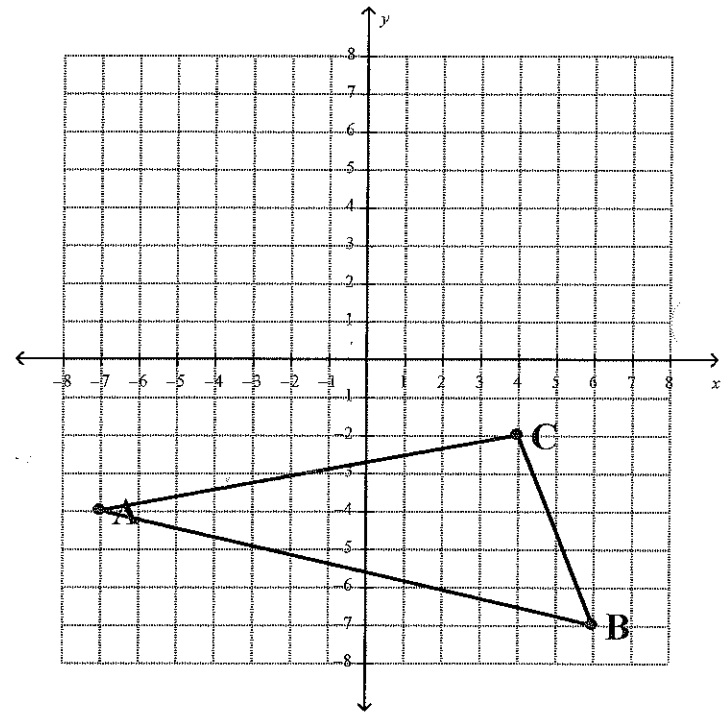
5.



Pre-Image Points:

Image Points:

6.



Pre-Image Points:

Image Points

# Rules for Reflections

## Reflection over the x-axis

Describe in words:

Write using math symbols:

## Reflection over the y-axis

Describe in words:

Write using math symbols:

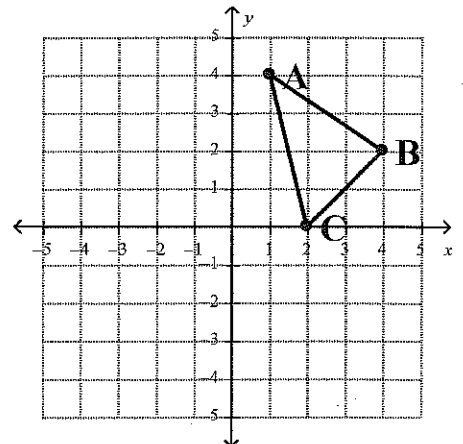
1. Triangle ABC is reflected over the x-axis. Use the appropriate rules above or the graph to the right to give the image points for triangle A'B'C'.

A' (     ,     )    B' (     ,     )    C' (     ,     )

2. Triangle ABC is reflected over the y-axis. Use the appropriate rule above or the graph to right to give the image points for triangle A'B'C'.

A' (     ,     )    B' (     ,     )    C' (     ,     )

<b>A (1, 4)</b>	<b>B (4, 2)</b>	<b>C (2, 0)</b>
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In 3-10, pre-image coordinate points are given. Find the image of each point under the given reflection.

Reflection over the x-axis.

3.  $(-1, -9) \rightarrow$

4.  $(7, -6) \rightarrow$

5.  $(-2, 2) \rightarrow$

6.  $(10, 3) \rightarrow$

$\rightarrow$

Reflection over the y-axis.

7.  $(5, -5) \rightarrow$

8.  $(-1, -9) \rightarrow$

9.  $(-2, 2) \rightarrow$

10.  $(10, 3) \rightarrow$