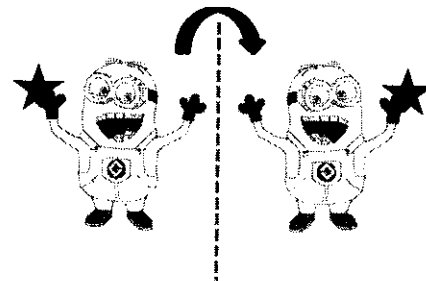


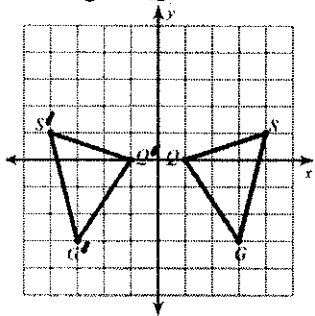
# 1.2 Reflections



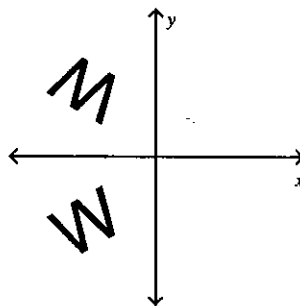
Reflection:	
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## Example 1

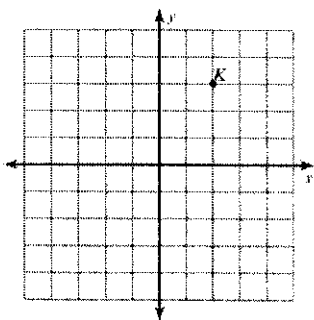
1. Triangle  $GOS$  is reflected across the \_\_\_-axis.



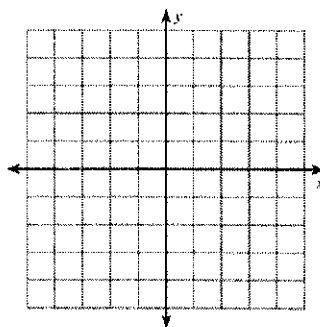
2. The letter  $W$  is reflected across the \_\_\_\_\_ - axis.



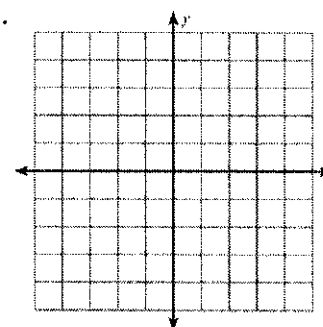
3. Reflect point  $K$  across the  $x$ -axis.



4. Reflect point  $P(2, -3)$  across the  $y$ -axis.

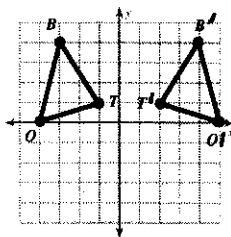


5. Reflect point  $D(-4, -4)$  across the  $x$ -axis.

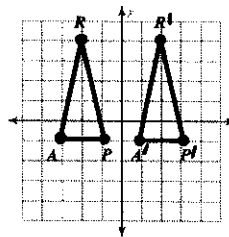


## Error Analysis

1. On a quiz Charlie reflected the triangle below across the  $y$ -axis, but it was marked wrong. Describe his error.

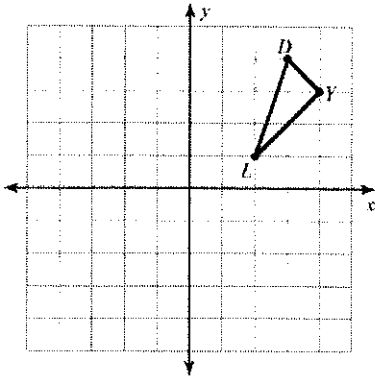


2. Jenna reflected the triangle below across the  $x$ -axis. Describe her error.

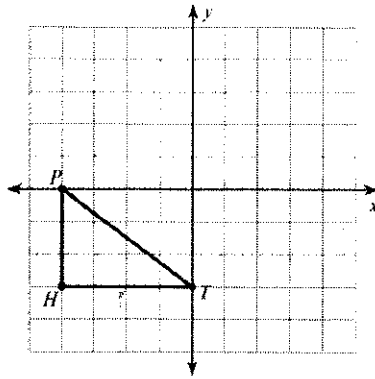


**Example 2** Graph the reflection described. Then list the coordinates of the image.

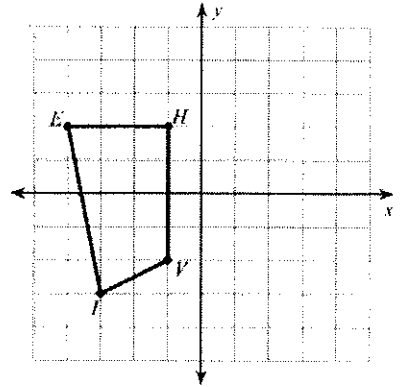
1. Reflection in the  $x$ -axis



2. Reflection in the  $y$ -axis

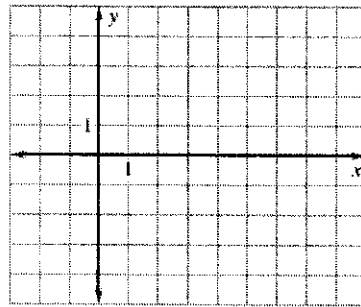


3. Reflection in the  $y$ -axis



4. Graph  $\triangle PET$  with vertices  $P(2, 4)$ ,  $E(4, 1)$ , and  $T(7, 4)$ . Then reflect  $\triangle PET$  across the  $x$ -axis and graph  $\triangle P'E'T'$ . Label the coordinates on the side.

$P(2, 4)$	→
$E(4, 1)$	→
$T(7, 4)$	→



**Example 3** Describe the transformation

