

Accelerated Math Notes
 Transformations on the Coordinate Plane
 (Section 11-4 to 11-7)

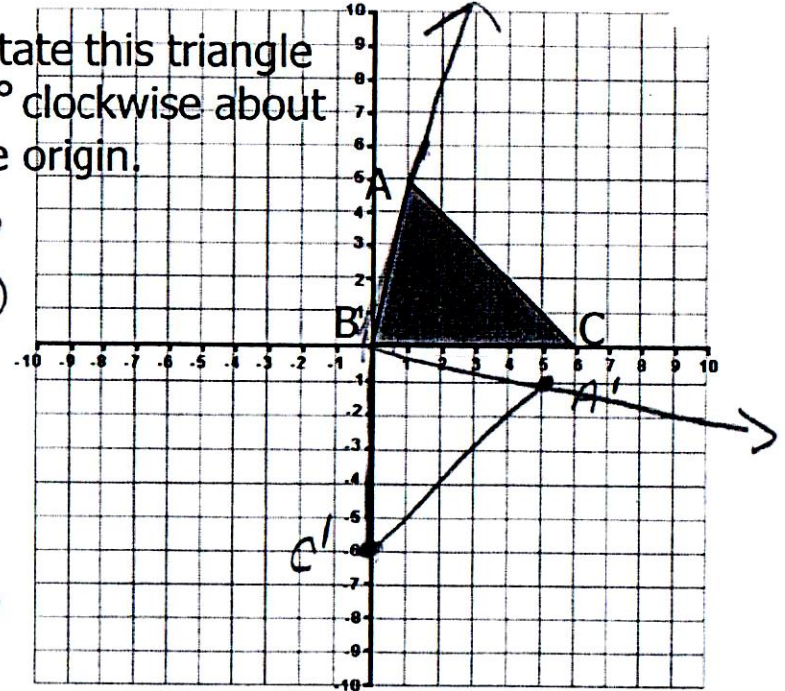
- *Reflections flip
- *Translations slides
- *Dilations grow or shrink
- *Rotations turn

Rotate this triangle
 90° clockwise about
 the origin.

$$A(1,5) \rightarrow A'(5,-1)$$

$$B(0,0) \rightarrow B'(0,0)$$

$$C(6,0) \rightarrow C'(0,-6)$$



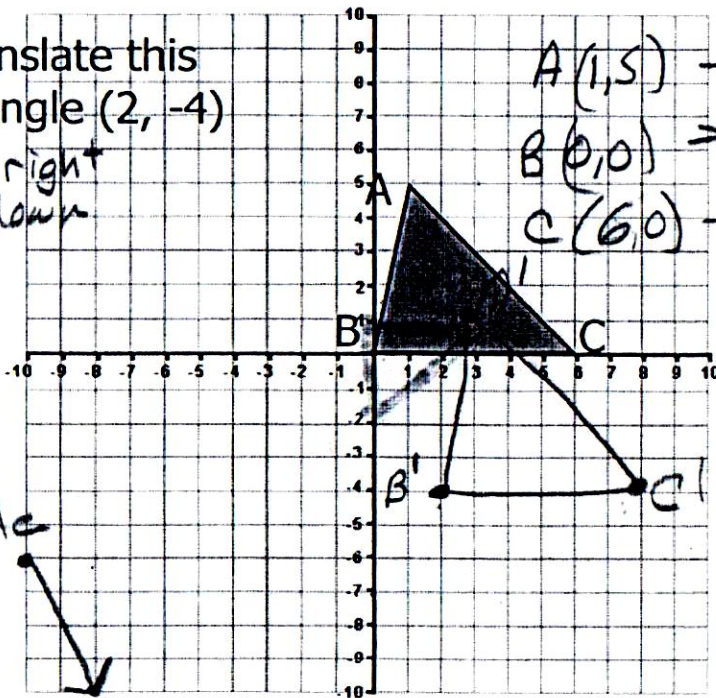
Translate this
 triangle (2, -4)

2 right
 4 down

$$A(1,5) \rightarrow A'(3,1)$$

$$B(0,0) \rightarrow B'(2,-4)$$

$$C(6,0) \rightarrow C'(8,-4)$$



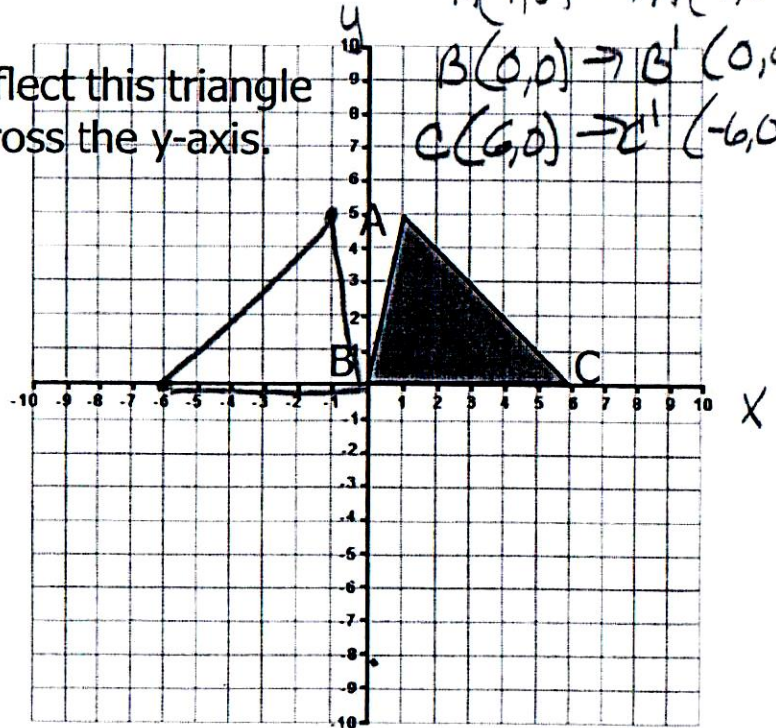
Translate

Reflect this triangle
 across the y-axis.

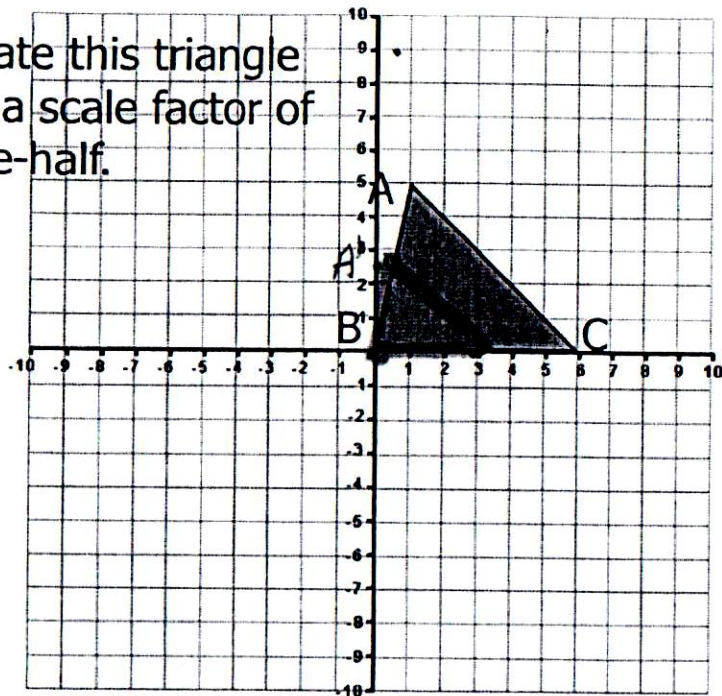
$$A(1,5) \rightarrow A'(-1,5)$$

$$B(0,0) \rightarrow B'(0,0)$$

$$C(6,0) \rightarrow C'(-6,0)$$



Dilate this triangle by a scale factor of one-half.



$$\begin{aligned} A(1, 5) &\rightarrow \\ A'(\frac{1}{2}, 2\frac{1}{2}) &\rightarrow \\ B(0, 0) &\rightarrow \\ B'(0, 0) &\rightarrow \\ C(6, 0) &\rightarrow \\ C'(3, 0) &\rightarrow \end{aligned}$$

