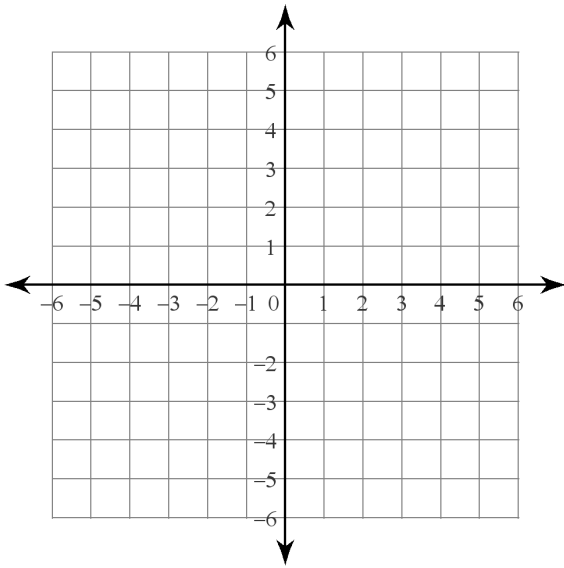


Transformations Unit

Lesson #3: Rotations

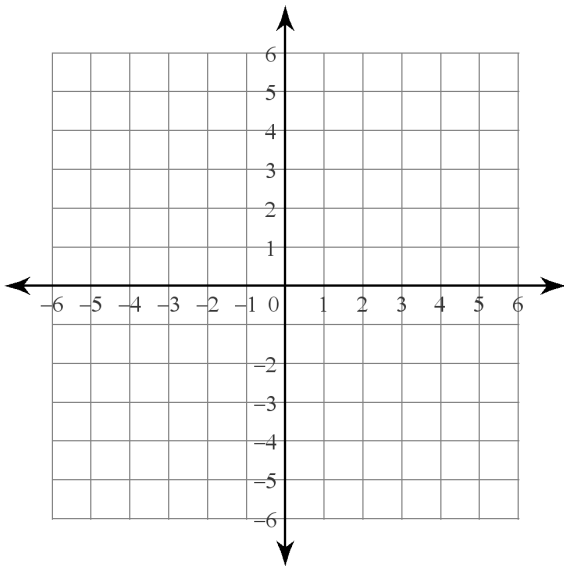
1) Rotate $\triangle BAT$ where $B(-5,3)$, $A(-1,4)$, and $T(-2,2)$ 180° clockwise about the origin.



B (__, __)	B' (__, __)
A (__, __)	A' (__, __)
T (__, __)	T' (__, __)

Describe how you did the rotation:

2) Rotate $\triangle GST$ $G(1,2)$, $S(3,0)$, AND $T(4,4)$ 180° counterclockwise about the origin.

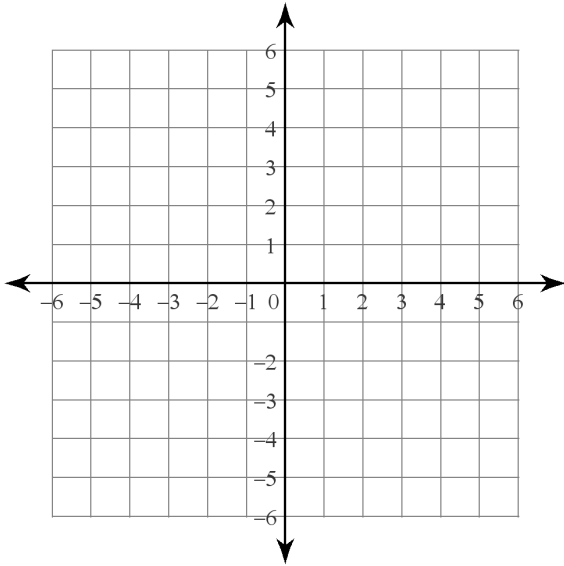


G (__, __)	G' (__, __)
S (__, __)	S' (__, __)
T (__, __)	T' (__, __)

Describe how you did the rotation:

When you rotate a shape 180° , does it matter if you go clockwise or counterclockwise?

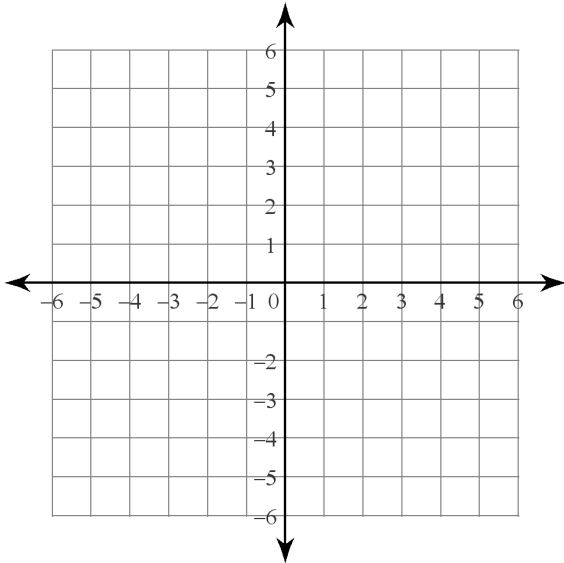
3) Rotate $\triangle GHL$, where $G(2,1)$, $H(0,3)$, and $L(5,4)$, 90° clockwise about the origin.



$G(\underline{\quad}, \underline{\quad})$ $G'(\underline{\quad}, \underline{\quad})$
 $H(\underline{\quad}, \underline{\quad})$ $H'(\underline{\quad}, \underline{\quad})$
 $L(\underline{\quad}, \underline{\quad})$ $L'(\underline{\quad}, \underline{\quad})$

Describe how you did the rotation:

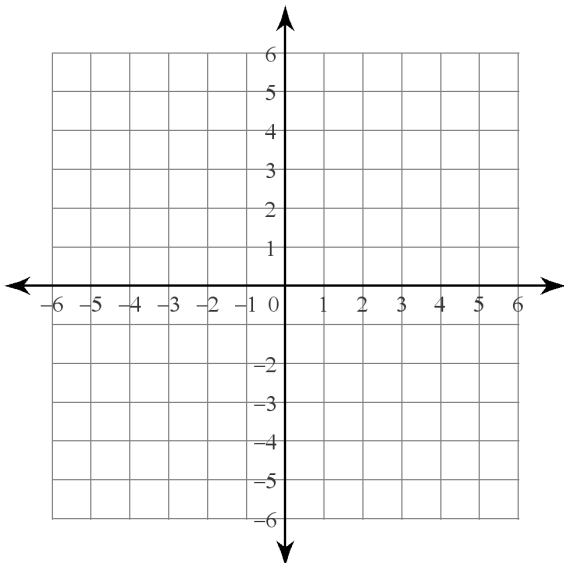
4) Rotate $\triangle WCH$, where $W(-3,-1)$, $C(-4,-3)$, and $H(-1,-3)$, 90° counterclockwise about the origin.



$W(\underline{\quad}, \underline{\quad})$ $W'(\underline{\quad}, \underline{\quad})$
 $C(\underline{\quad}, \underline{\quad})$ $C'(\underline{\quad}, \underline{\quad})$
 $H(\underline{\quad}, \underline{\quad})$ $H'(\underline{\quad}, \underline{\quad})$

Describe how you did the rotation:

5) Rotate $\triangle WCH$, where $W(-3,-1)$, $C(-4,-3)$, and $H(-1,-3)$, 270° clockwise about the origin.



$W(\underline{\quad}, \underline{\quad})$ $W'(\underline{\quad}, \underline{\quad})$
 $C(\underline{\quad}, \underline{\quad})$ $C'(\underline{\quad}, \underline{\quad})$
 $H(\underline{\quad}, \underline{\quad})$ $H'(\underline{\quad}, \underline{\quad})$

Describe how you did the rotation: