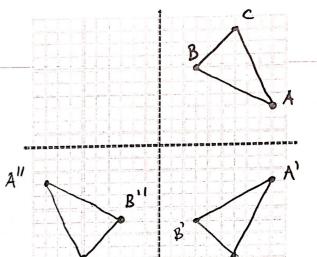
Name: Key

raph the original triangle then the two transformations. Draw each one a different color.

1.	x-axis reflection (X,-y)	y-axis reflection (-x, y)
A(9, 3)	\rightarrow A' $(9,-3)$ \rightarrow	A" (-9,-3)

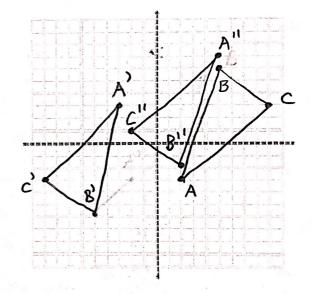
$$B \underline{(3,6)} \rightarrow B' \underline{(3,-6)} \rightarrow B'' \underline{(-3,-6)}$$

$$C (6,9) \rightarrow C'(6,-9) \rightarrow C''(-6,-9)$$

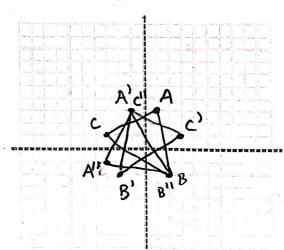


2. Rotate 180° Right 7 Up 4

$$(-x,-y)$$
 $(x+7,y+4)$
 $A (2,-3) \rightarrow A' (-2,+3) \rightarrow A'' (5,7)$
 $(5,6) \rightarrow B' (-5,-6) \rightarrow B'' (2,-2)$
 $C (9,3) \rightarrow C' (-9,-3) \rightarrow C'' (-2,1)$



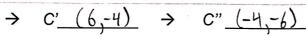
3.		Reflect over y-a	xis	Rotate 90°
A(1, 3)	\rightarrow	A'_(-1,3)		A'' (-3,-1)
B(2, -2)	⇒	B' (-2,-2)	\rightarrow	B" (2,-2)
C (-3, 1)	\rightarrow	$C'_{(3,1)}$	\rightarrow	C" (-1,3)

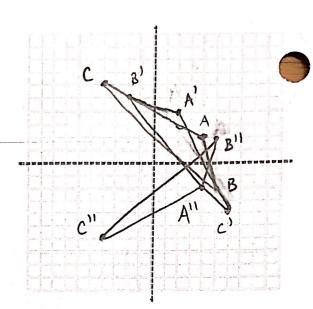


Reflect over
$$y = x$$

Rotate 270° $(\lambda'-x)$

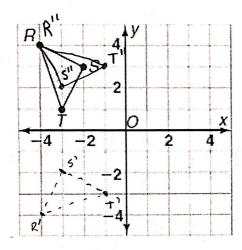
$$A \underline{\hspace{1cm} (4,2) \hspace{1cm}} \rightarrow$$



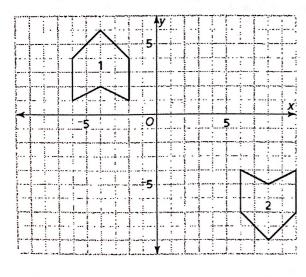


5.

Draw the final image created by rotating triangle RST 90° counterclockwise about the origin and then reflecting the image in the *x*-axis.



6. Refer to the grid below:



a. Describe how you could move shape 1 to exactly match shape 2 by using one translation and one reflection.

b. Are there other sequences of transformations that would move shape 1 to exactly match shape 2? If so, describe the steps you would perform.



Rotate 180° CCW.