

READY, SET, GO!

Name _____

Period _____

Date _____

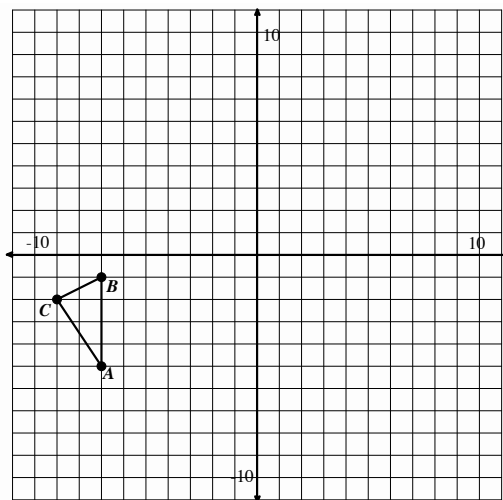
READY

Topic: Multiple transformations

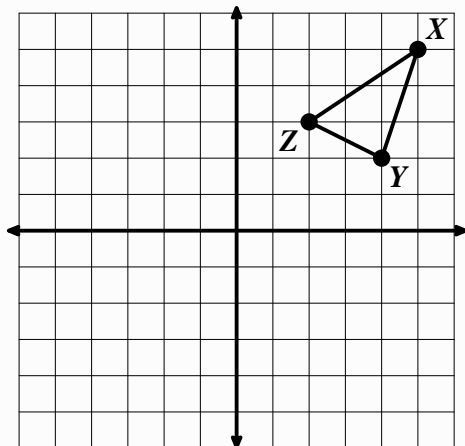
The given figures are to be used as pre-images. Perform the stated transformations to obtain an image. Label the corresponding parts of the image in accordance with the pre-image.

1. Reflect triangle ABC over the line $y = x$ and label the image $A'B'C'$.

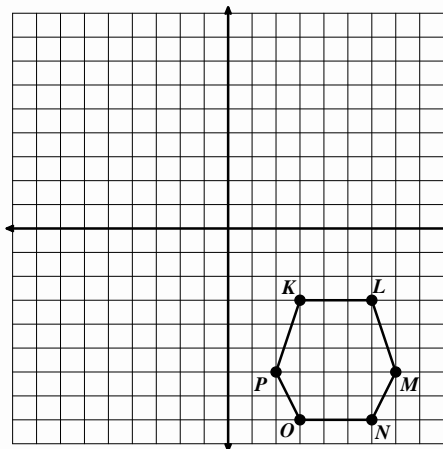
Rotate triangle $A'B'C'$ 180° counter clockwise around the origin and label the image $A''B''C''$.



2. Reflect over the line $y = -x$.

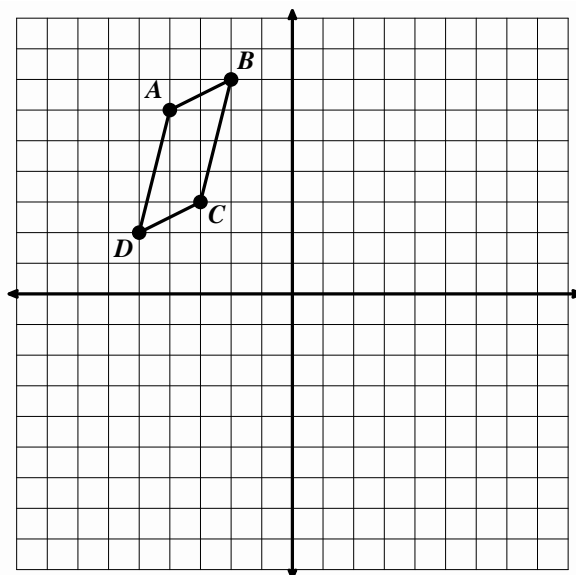


3. Reflect over y-axis and then
 Rotate clockwise 90° around P' .



4. Reflect quadrilateral $ABCD$ over the line $y = 2 + x$ and label the image $A'B'C'D'$.

Rotate quadrilateral $A'B'C'D'$ counter-clockwise 90° around $(-2, -3)$ as the center of rotation label the image $A''B''C''D''$.

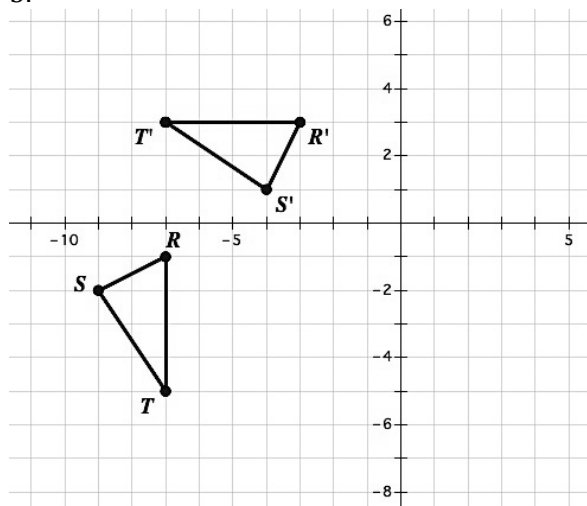


SET

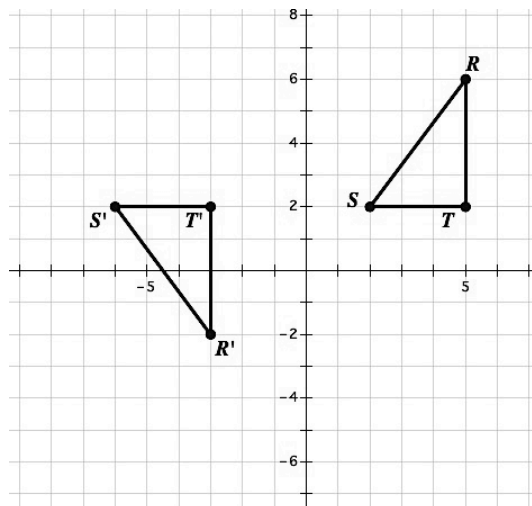
Topic: Find the sequence of transformations.

Find a sequence of transformations that will carry triangle RST onto triangle $R'S'T'$. Clearly describe the sequence of transformations below each grid.

5.



6.

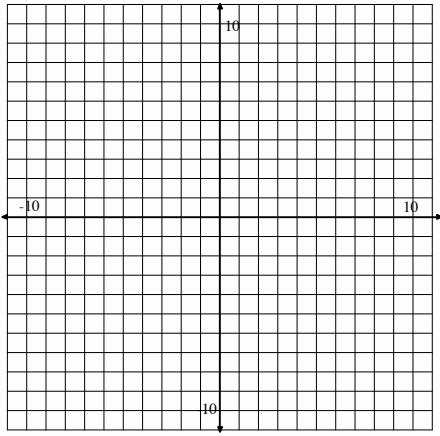


GO

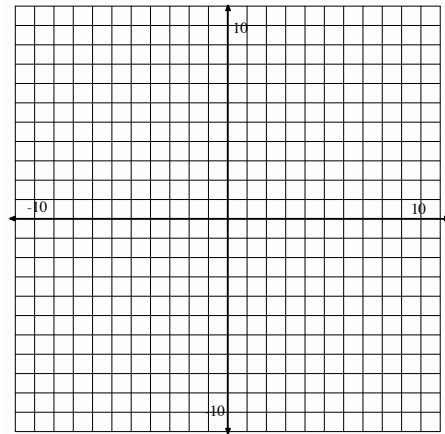
Topic: Graphing systems of functions and making comparisons.

Graph each pair of functions and make an observation about how the functions compare to one another.

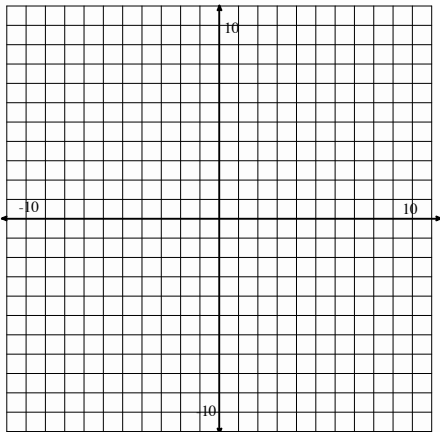
7. $y = \frac{1}{3}x - 1$
 $y = -3x - 1$



8. $y = -\frac{2}{3}x + 5$
 $y = \frac{3}{2}x + 5$



9. $y = \frac{1}{4}x + 2$
 $y = -\frac{1}{4}x + 2$



10. $y = 2^x$
 $y = -2^x$

