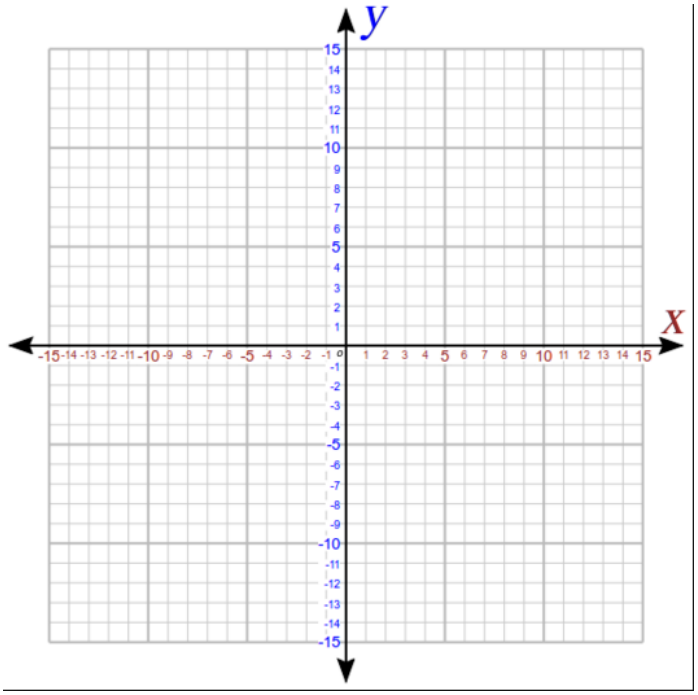
More 2.7 Homework **Name**_____

Hour_____

The vertices of a figure are given. Find the coordinates of the figure after the transformations given.

1.) Rotate 90° clockwise about the origin. Then dilate with respect to the origin using a scale factor of 3.

J (1,1), K(3, 4), L(5,1)

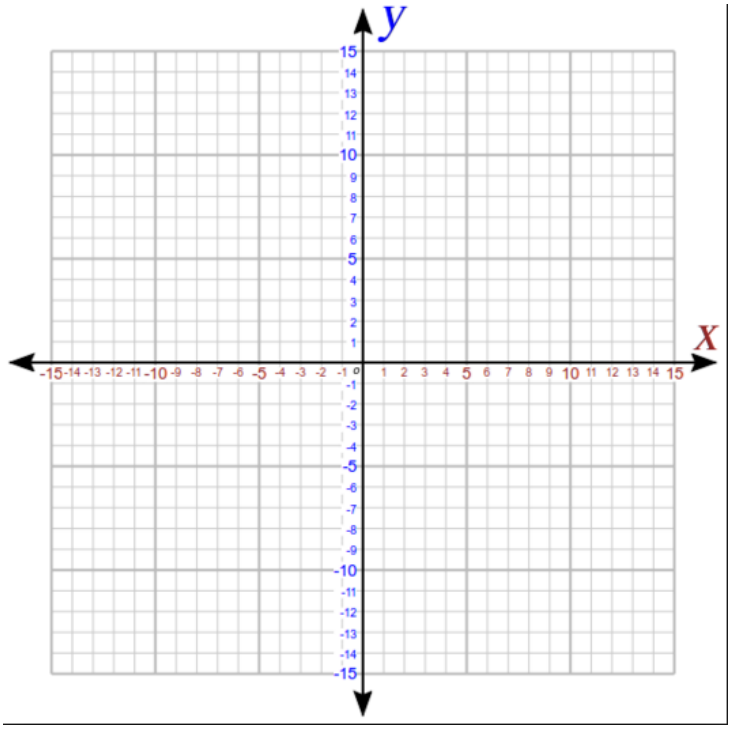


J' ( ), K'( ), L' ( )

J'' ( ), K''( ), L'' ( )

2.) Dilate with respect of the origin using a scale factor of 2. Then dilate with respect to the origin using a scale factor of 0.5.

P(-2,2), Q(4,2), R(2, -6), S(-4,-6)



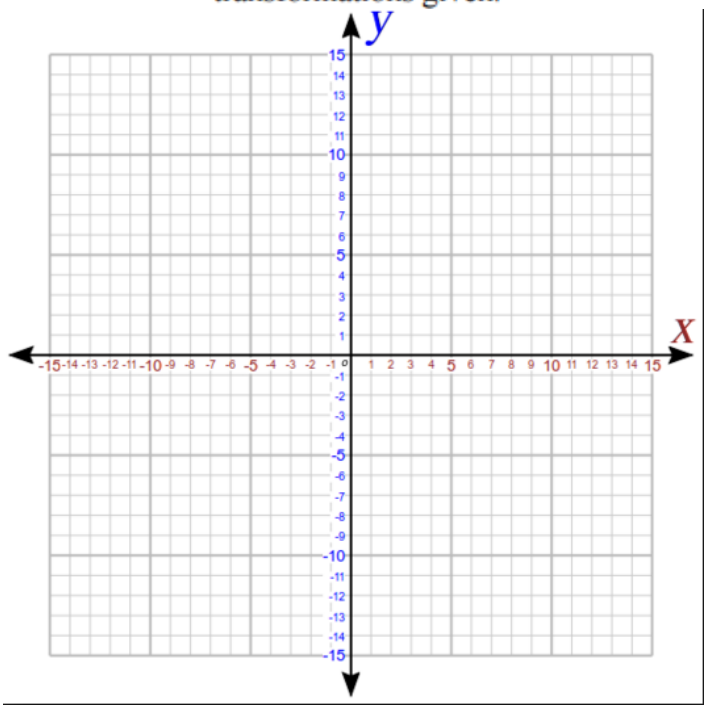
P'( ), Q'( ), R'( ), S'( )

P''( ), Q''( ), R''( ), S''( )

More 2.7 Homework **Name**_____

Hour_____

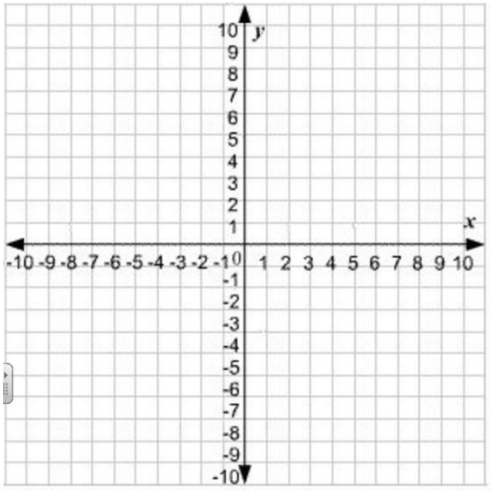
3.) The vertices of a figure are $P(1, 2)$, $Q(3, 4)$, and $R(-1, 6)$. Dilate with respect to the origin using a scale factor of 2 and then translate 4 units right and 3 units down. Find the coordinates of the figure after the transformations given.



P'( ), Q'( ), R'( )

P''( ), Q''( ), R''( )

4.) The vertices of a trapezoid are $A(-4, 0)$, $B(-2, 4)$, $C(2, 4)$, and $D(6, 0)$. Dilate the trapezoid with respect to the origin using a scale factor of 0.5. Then translate it 2 units right and 3 units down. What are the coordinates of the image?



A'( ), B'( ), C'( ), D'( )

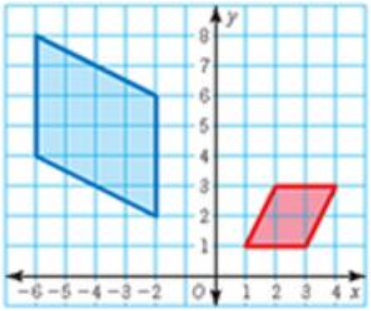
A''( ), B''( ), C''( ), D''( )

More 2.7 Homework **Name**_____

Hour_____

The red figure is similar to the blue figure. Describe a sequence of transformations in which the blue figure is the image of the red figure.

27.



28.