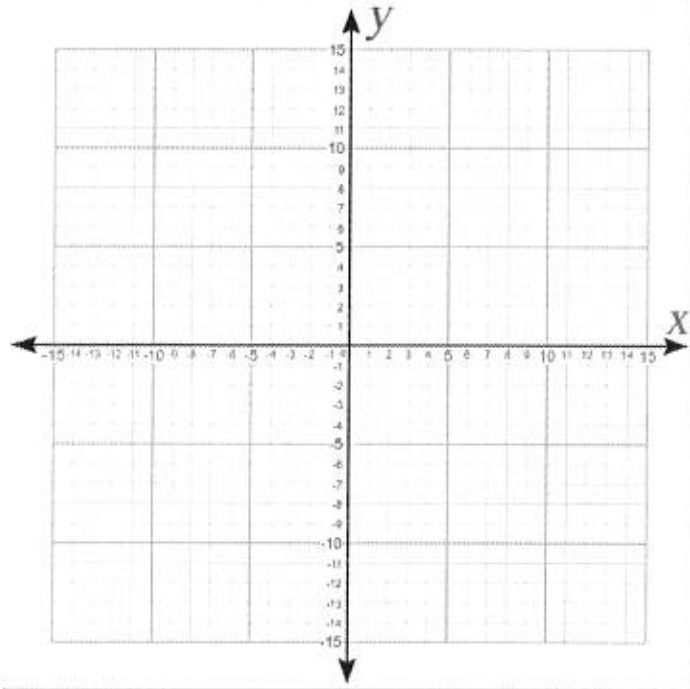


The vertices of a figure are given. Find the coordinates of the figure after the transformations given.

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

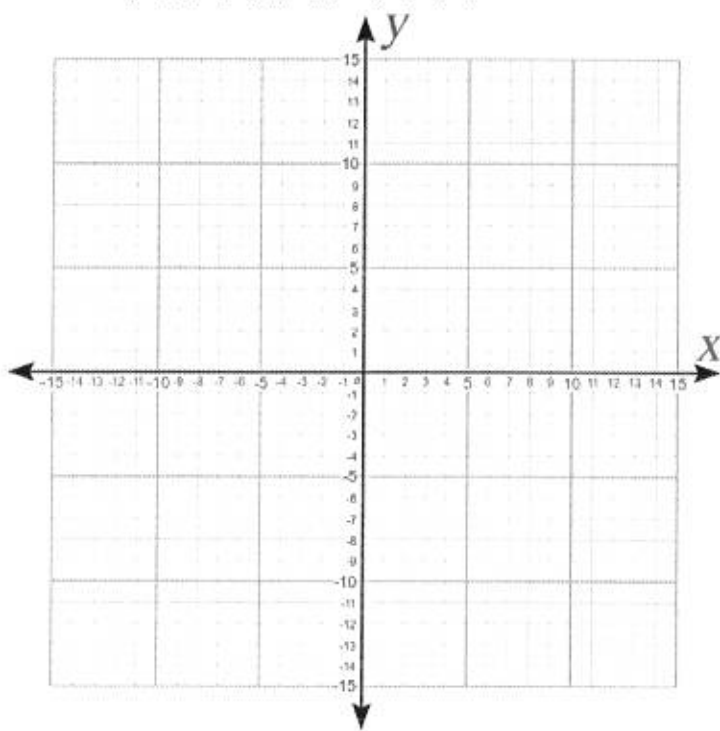
$J(1,1), K(3,4), L(5,1)$



$J'(\quad), K'(\quad), L'(\quad)$
 $J''(\quad), K''(\quad), L''(\quad)$

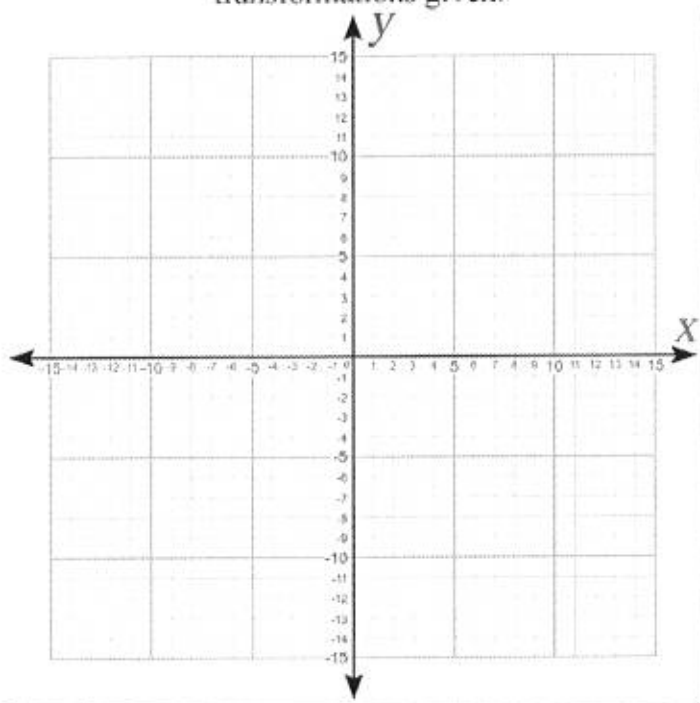
- 2.) Dilate with respect of the origin using a scale factor of 2. Then dilate with respect to the origin using a scale factor of 0.5.

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



$P'(\quad), Q'(\quad), R'(\quad), S'(\quad)$
 $P''(\quad), Q''(\quad), R''(\quad), S''(\quad)$
 $)$

- 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.



$P'(\quad), Q'(\quad), R'(\quad)$
 $P''(\quad), Q''(\quad), R''(\quad)$

- 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?

$A'(\quad), B'(\quad), C'(\quad), D'(\quad)$
 $A''(\quad), B''(\quad), C''(\quad), D''(\quad)$

