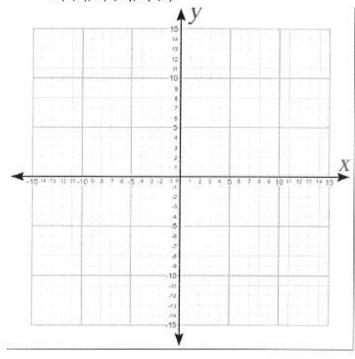
The vertices of a figure are given. Find the coordinates of the figure after the transformations given.

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)



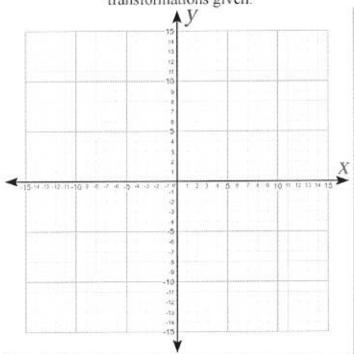
J'( ), K'( ), L'( ) J"( ), K"( ), L"( )

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)

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



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''(

