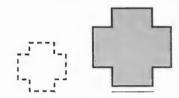
2.7 - Dilations (Part 2)

Tell whether the dashed figure is a dilation of the solid figure. Explain your reasoning.

1)

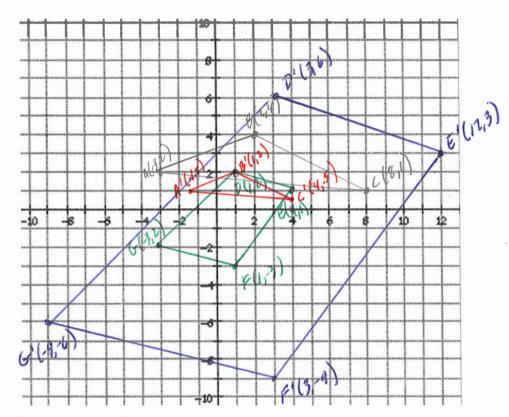


Yes It is a 2) reduction of the solid figure.





Use the following coordinate plane for #3 & 4.



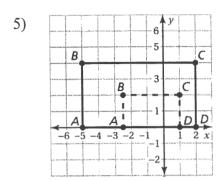
The vertices of a figure are given. Draw the figure above AND its image after a dilation with the given scale factor of k. Identify the type of dilation. (Note: You may want to use different colors for the different images)

3)
$$A(-3, -2), B(2, 4), C(8, 1); k = \frac{1}{2}$$

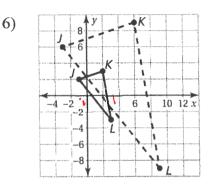
 $A'(-1.5, -1), B'(1.2), C'(4, .5)$

4)
$$D(1, 2), E(4, 1), F(1, -3), G(-3, -2); k = 3$$

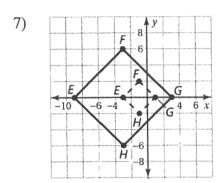
For #5-8, the <u>dashed figure</u> is a dilation of the original solid figure. Identify the type of dilation and find the scale factor.



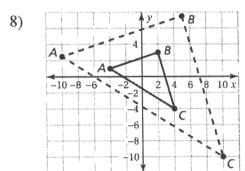
Reduction $K = \frac{1}{2}$



Enlargement E=3



Reduction $k = \frac{1}{3}$



Enlargement
K=2.5

9) 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"(6,1) Q"(10,5) R"(2,9)

