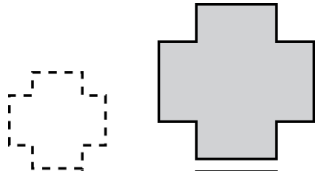


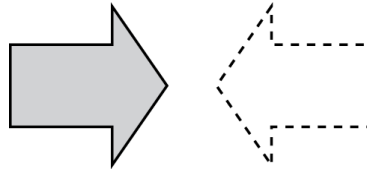
## **2.7 – Dilations (Part 2)**

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

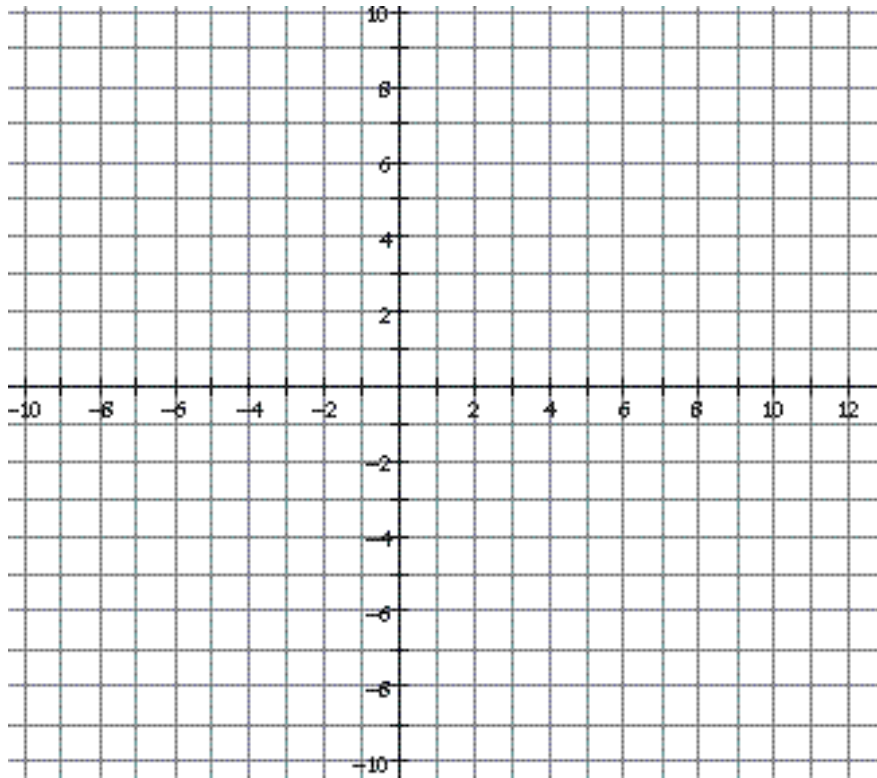
1)



2)



Use the following coordinate plane for #3 & 4.

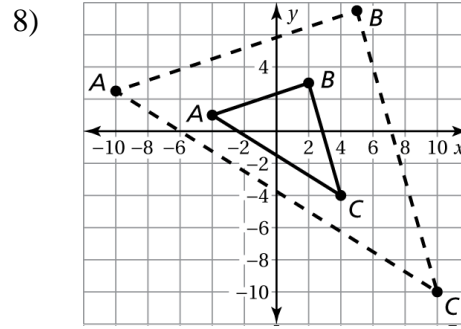
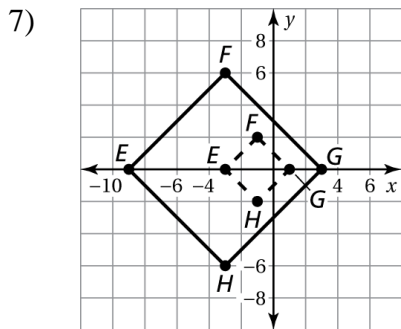
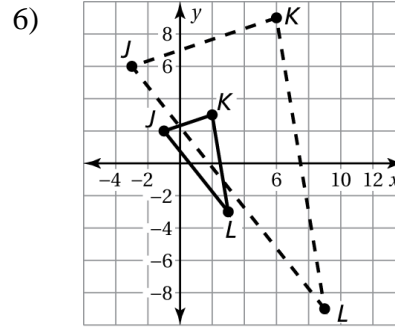
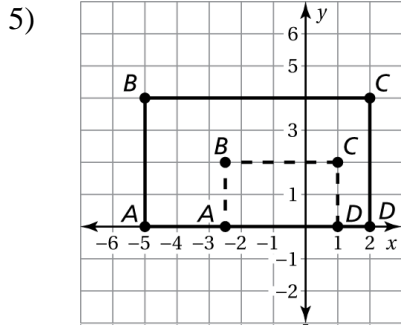


The vertices of a figure are given. Draw the figure above **AND** its image after a dilation with the given scale factor of  $k$ . **Identify** the type of dilation. (Note: You may want to use different colors for the different images)

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

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

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



- 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.

