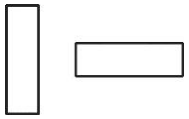
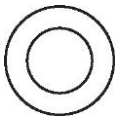
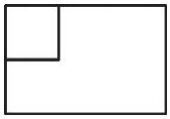
CC Geometry HW#_____ Name_____
Worksheet 9-7 and review

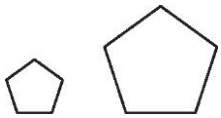
Date_____Per_____ Col_____

Tell whether each transformation appears to be a dilation.

1.  _____

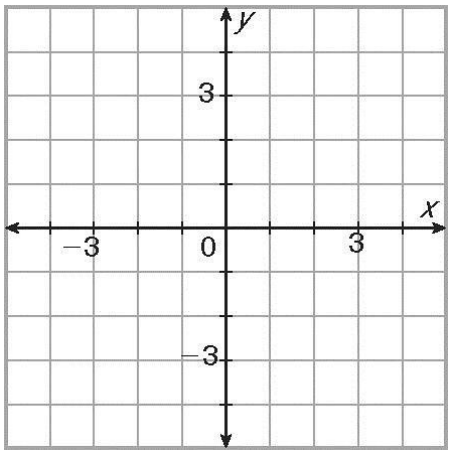
2.  _____

3.  _____

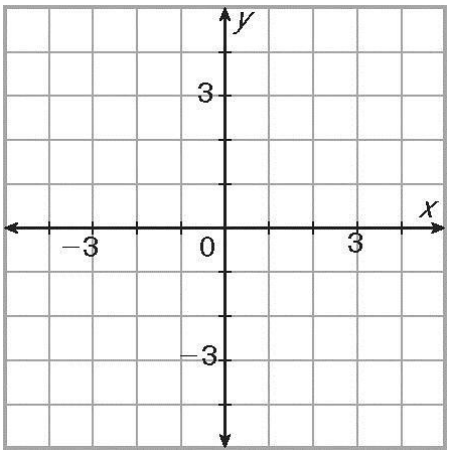
4.  _____

Draw the image of the figure with the given vertices under a dilation with the given scale factor centered at the origin. Use a ruler and label the image points.

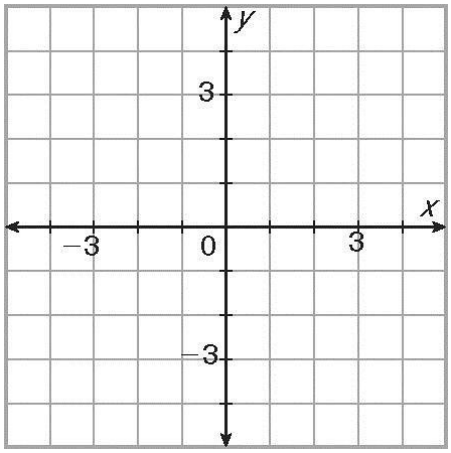
5. $A(2, -2)$, $B(2, 3)$, $C(-3, 3)$, $D(-3, -2)$; scale factor: $\frac{1}{2}$



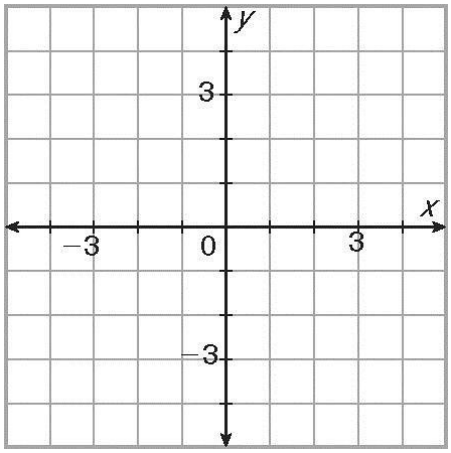
6. $P(-4, 4)$, $Q(-3, 1)$, $R(2, 3)$; scale factor: -1



7. $J(0, 2)$, $K(-2, 1)$, $L(0, -2)$, $M(2,-1)$; scale factor: 2

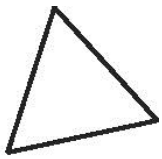


8. $D(0, 0)$, $E(-1, 0)$, $F(-1, -1)$; scale factor: -2



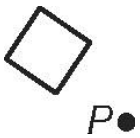
Draw the dilation of each figure under the given scale factor with center of dilation *P*. Use a ruler and measure as accurately as possible.

9. scale factor: $\frac{1}{2}$



P

10. scale factor: -2



11. Draw all lines of symmetry with a ruler. How many lines of symmetry?

12. Identify the angle of rotational symmetry.