## line of reflection = line of Symmetry Center of rotation = center of shape



Date	
Geometry	

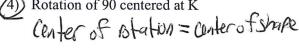


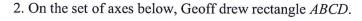
Mapping Shapes Onto Themselves

1. Circle *K* is shown in the graph below. Which of the following transformations map circle K onto itself?



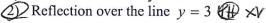
- Reflection over the y-axis
- 3) Rotation of 90 centered at the origin
- (4)) Rotation of 90 centered at K



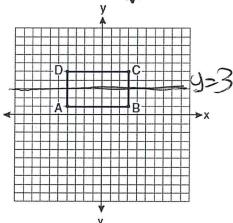


What of the following transformations would map the rectangle onto itself?

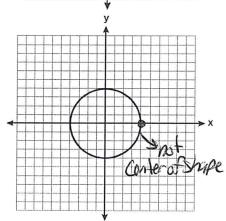
1) Reflection over the y axis



- 3) Rotation of 180 centered at the origin
- 4) Translation one unit to the right

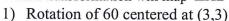


- 3. In the diagram below, which transformation does *not* map the circle onto itself?
- Rotation of 80 centered at the origin
- 2) Reflection over the line y = x
- 3) Rotation of 180 centered at (4,0) level of patien = conter of Shape
- 4) Reflection over the line x=0

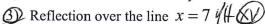


4. The vertices of the triangle in the diagram below are A(7,9), B(3,3), and C(11,3).

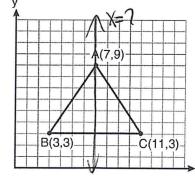
Which transformation will map  $\triangle ABC$  onto itself?



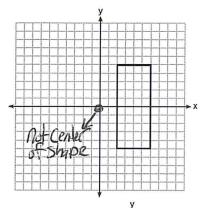
2) Reflection over the line y = 5



4) Translation 3 units up



- 5. As shown in the graph below, the quadrilateral is a rectangle. Which transformation would *not* map the rectangle onto itself?
- 1) a reflection over the x-axis
- 2) a reflection over the line x = 4
- (3) a rotation of 180° about the origin
- 4) a rotation of 180° about the point (4,0)



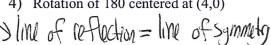
- 6. Which transformation does not map the circle in the diagram below onto itself?
- Rotation of 90 centered at the origin
- 2) Reflection over the line x = -3
- 3) Rotation of 90 centered at (-3, -4)
- 4) Reflection over the line y = -4

- 7. In the diagram below, quadrilateral ABCD is graphed.

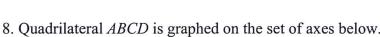
Which transformation will map ABCD onto itself?

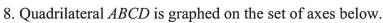
- 1) Reflection over the y-axis
- 2) Rotation of 180 centered at the origin
- Reflection over the line y = 0
- 4) Rotation of 180 centered at (4,0)



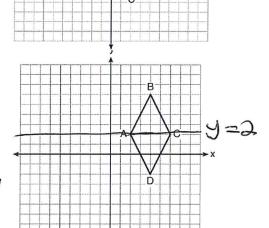








- Which transformation maps quadrilateral ABCD onto itself? 1) Reflection over the x-axis
- 2) Reflection over the y-axis
- 3) Reflection over x=2
- Deflection over y = 2 line of reflection=line of symmetry



- 9. Triangle ABC is graphed on the set of axes below. Which transformation maps  $\triangle ABC$  onto itself?
- 1) Reflection over the x-axis
- 2) Reflection over x=2
- (3) Reflection over y = 2
- 4) Reflection over x = -2

