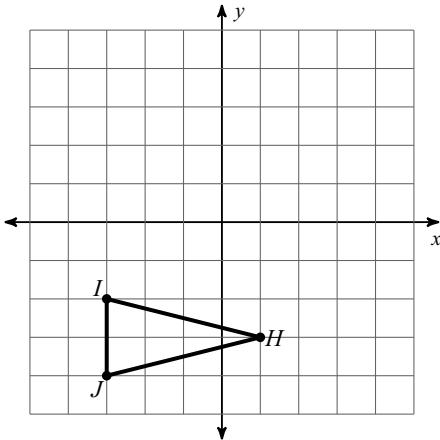


## Transformation Review Day

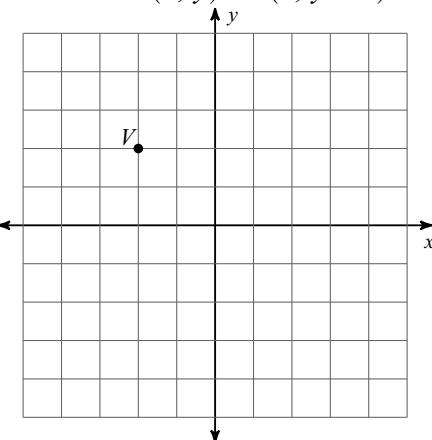
Date \_\_\_\_\_ Period \_\_\_\_\_

**Find the coordinates of the vertices of each figure after the given transformation.**

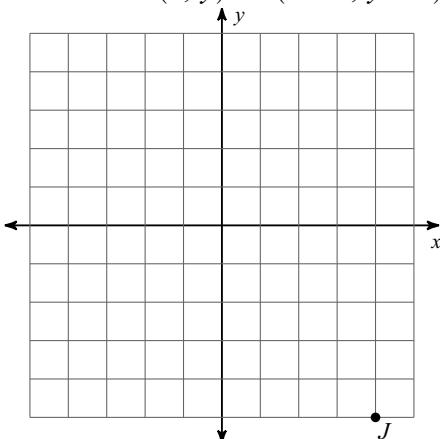
- 1) translation: 2 units left and 4 units up



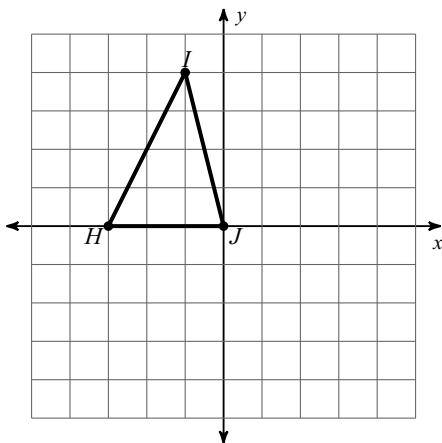
- 2) translation:
- $(x, y) \rightarrow (x, y + 3)$



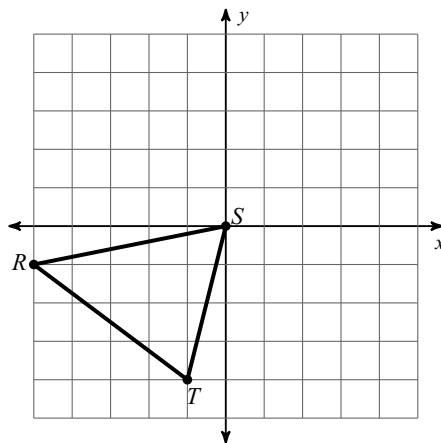
- 3) translation:
- $(x, y) \rightarrow (x - 1, y + 1)$

**Graph the image of the figure using the transformation given.**

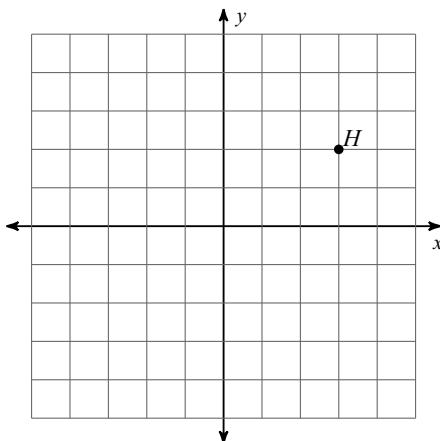
- 4) reflection across the x-axis



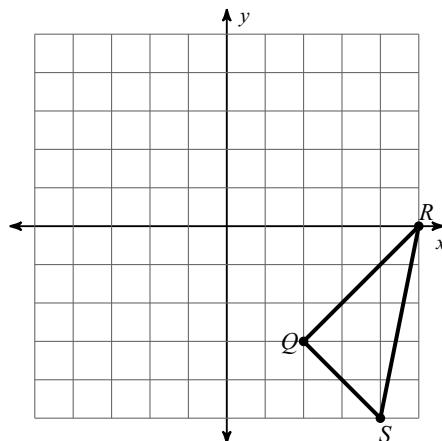
- 5) reflection across the y-axis



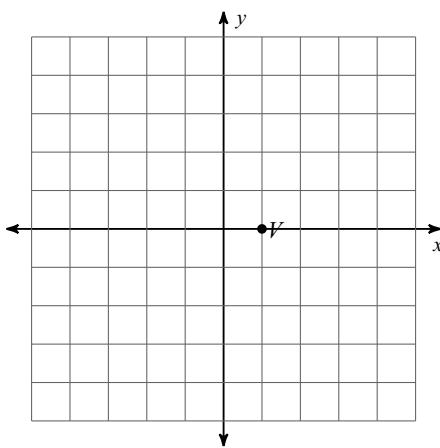
6) reflection across  $y = -1$



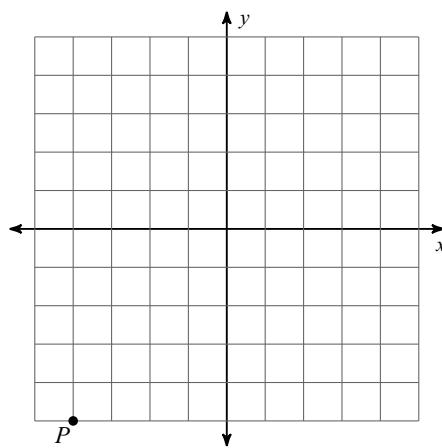
7) reflection across  $x = 3$



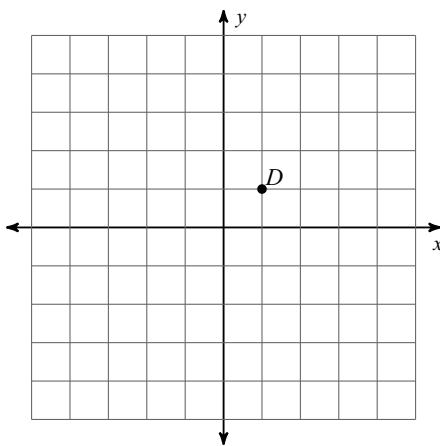
8) reflection across  $y = x$



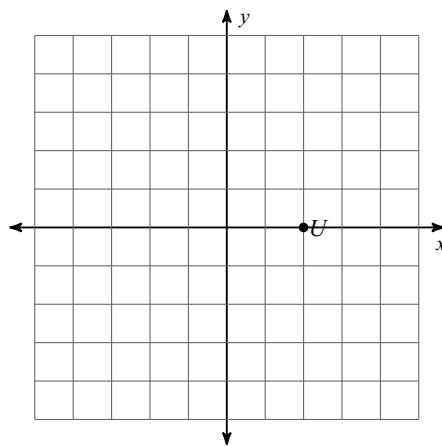
9) reflection across  $y = -x$



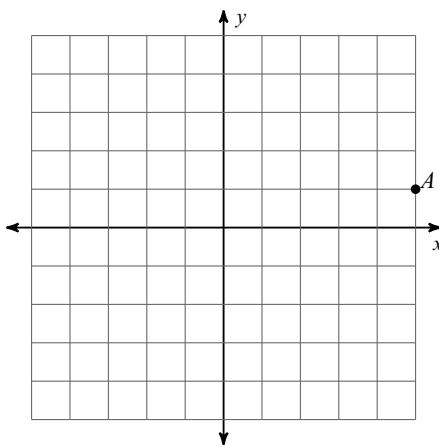
10) rotation  $180^\circ$  about the origin



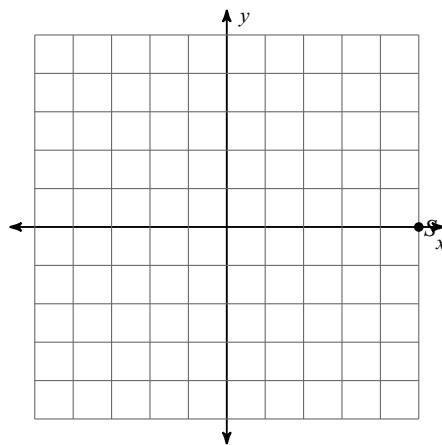
11) rotation  $90^\circ$  clockwise about the origin



- 12) rotation  $90^\circ$  counterclockwise about the origin



- 13) rotation  $90^\circ$  clockwise about the origin



- 14) rotation  $90^\circ$  counterclockwise about the origin

