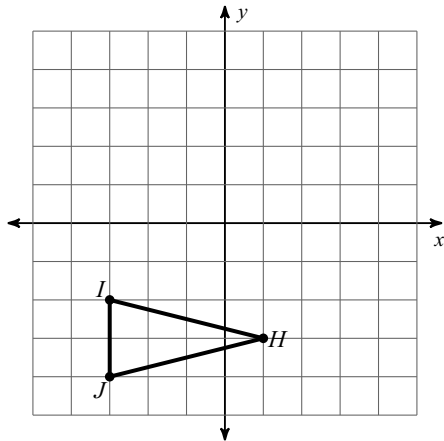


# Transformation Review Day

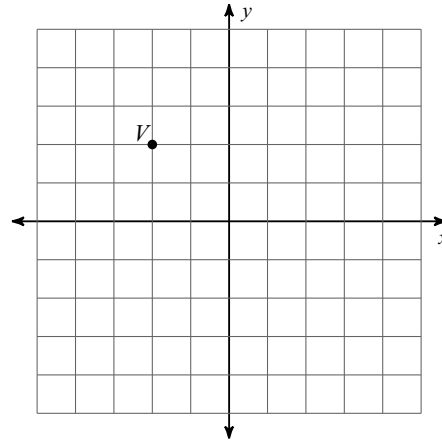
**Find the coordinates of the vertices of each figure after the given transformation.**

1) translation: 2 units left and 4 units up



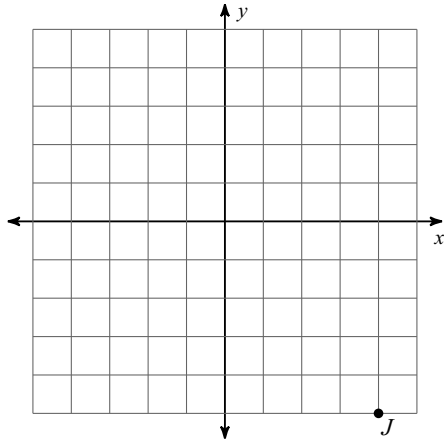
$J'(-5, 0), I'(-5, 2), H'(-1, 1)$

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



$V'(-2, 5)$

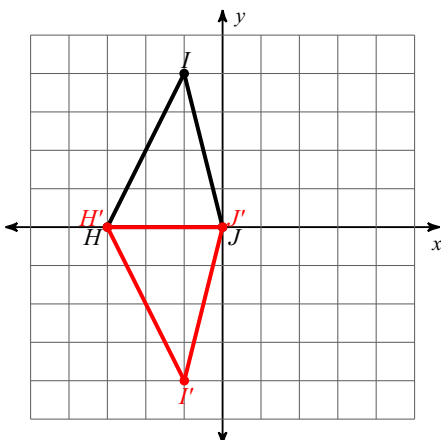
3) translation:  $(x, y) \rightarrow (x - 1, y + 1)$



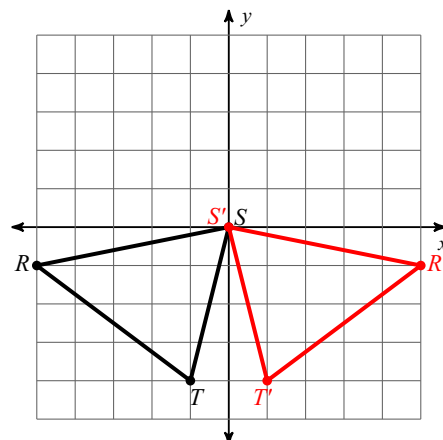
$J'(3, -4)$

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

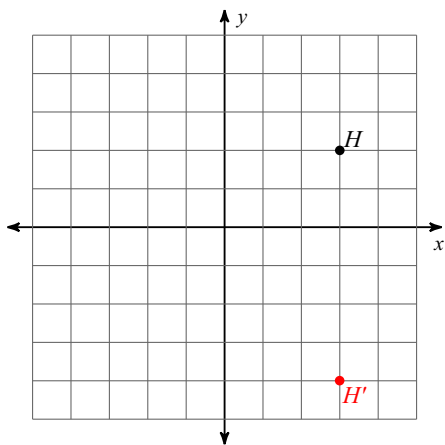
4) reflection across the x-axis



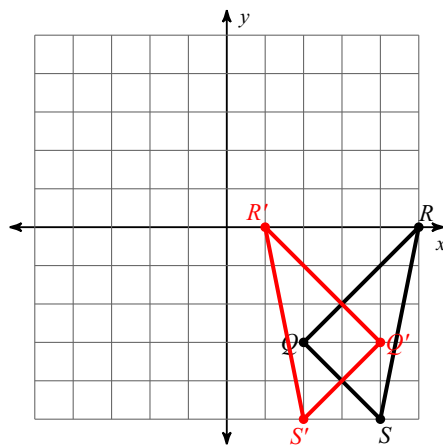
5) reflection across the y-axis



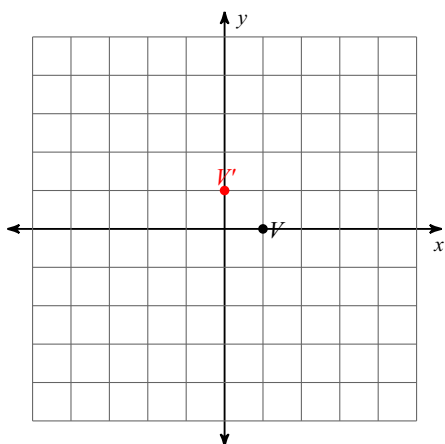
6) reflection across  $y = -1$



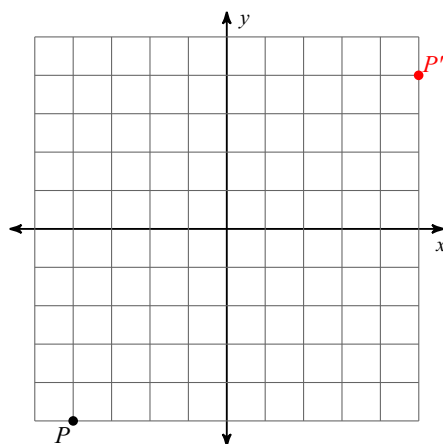
7) reflection across  $x = 3$



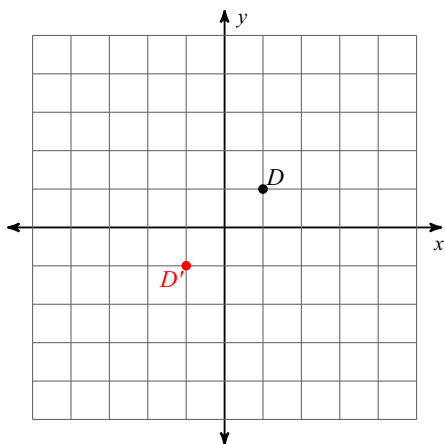
8) reflection across  $y = x$



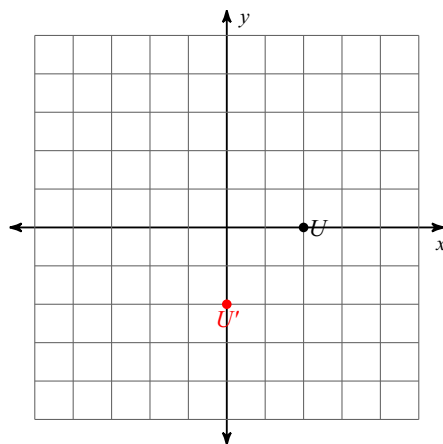
9) reflection across  $y = -x$



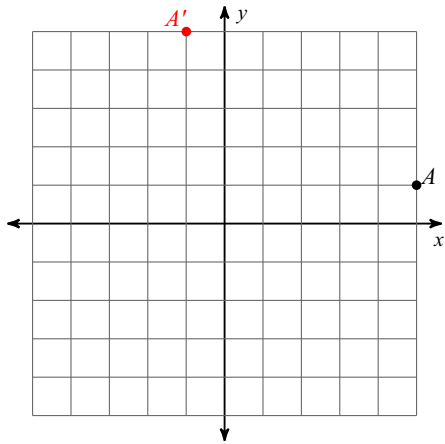
10) rotation  $180^\circ$  about the origin



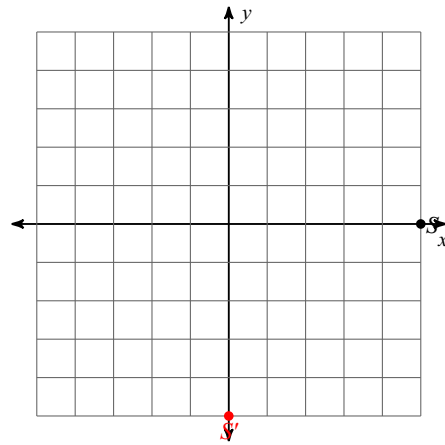
11) rotation  $90^\circ$  clockwise about the origin



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



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



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

