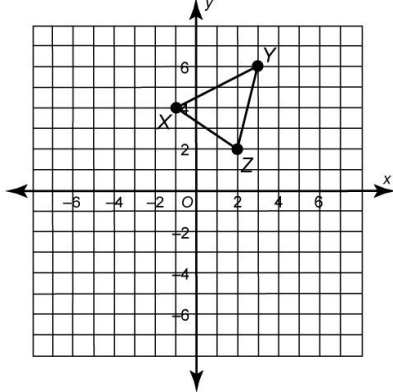


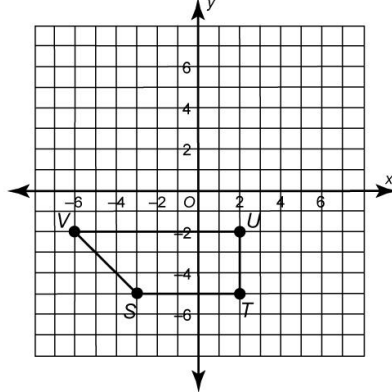
7-7: Transformations Worksheet

Graph each translation.

1. 3 units left and 9 units down

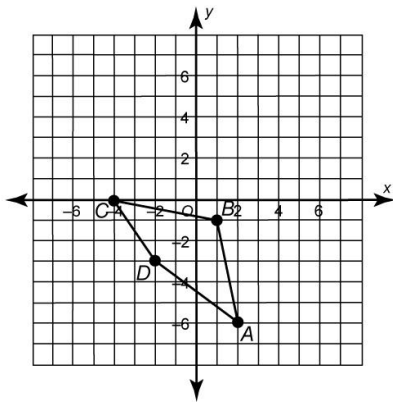


2. 3 units right and 6 units up

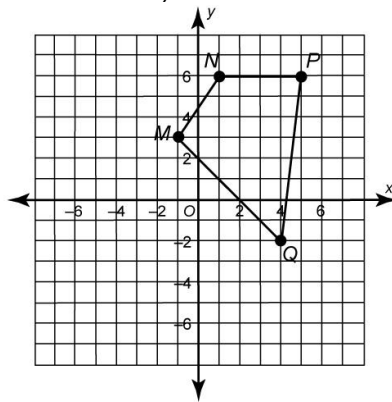


Graph each reflection.

3. across the x-axis

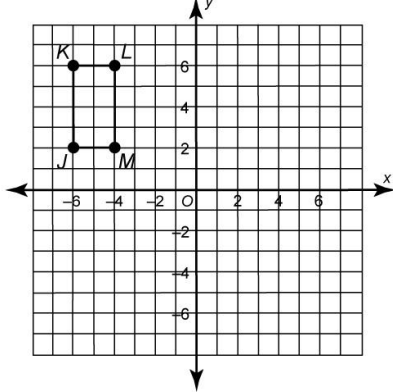


4. across the y-axis

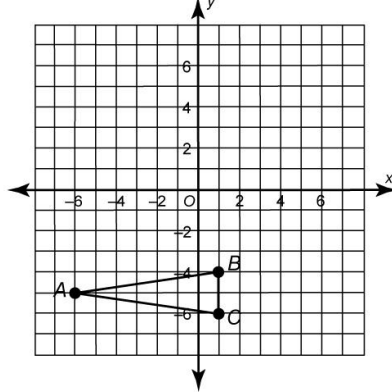


Graph each rotation.

5. 90° clockwise



6. 180°



7. A parallelogram has vertices $A(-1, 3)$, $B(4, 3)$, $C(6, -1)$, and $D(1, -1)$. After a transformation, the coordinates of the image are $A'(1, 3)$, $B'(-4, 3)$, $C'(-6, -1)$, and $D'(-1, -1)$. Describe the transformation.