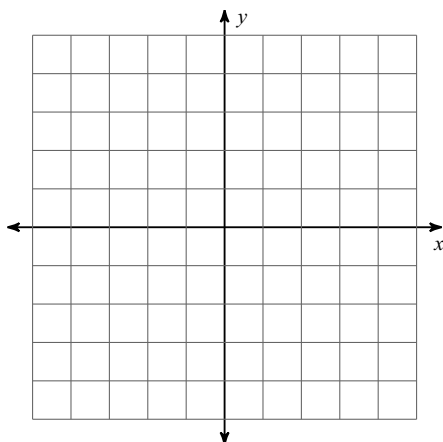


3.5 Reflections- horizontal, vertical, diagonal lines

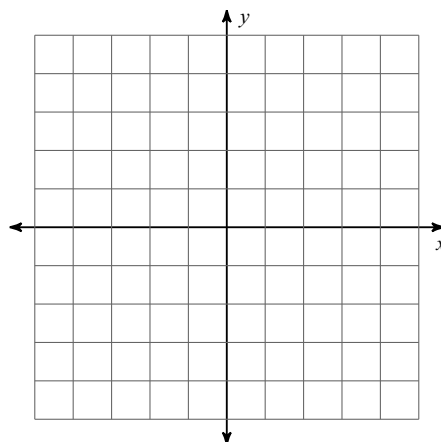
Date _____ Period _____

Graph the image of the figure using the transformation given.**Rewrite the transformation using reflection notation.**

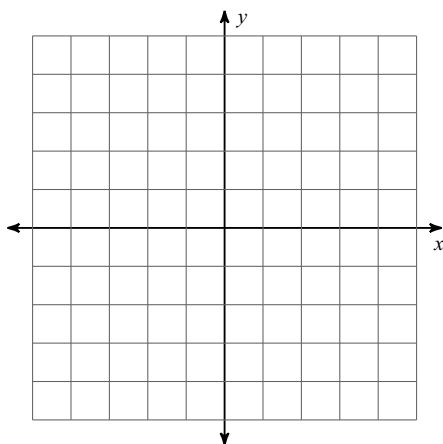
- 1) reflection across $x = 3$
 $E(2, -3), F(1, -1), G(2, 0), H(3, 0)$



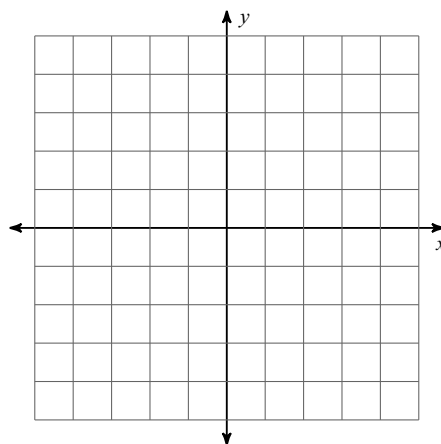
- 2) reflection across $y = x$
 $K(2, -4), J(0, 1), I(1, 1), H(4, -2)$



- 3) reflection across $y = -x$
 $T(-4, -5), U(-4, -2), V(0, -2)$



- 4) reflection across $y = -1$
 $C(-2, -3), D(-3, 0), E(1, -3)$

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

- 5) reflection across the y-axis
 $C(1, -4), D(4, -3), E(4, -4)$

- 6) reflection across the x-axis
 $L(-4, -3), K(-2, 0), J(0, -4)$

- 7) reflection across $y = x$
 $U(0, -2), V(3, -1), W(3, -5)$

- 8) reflection across $y = -x$
 $E(-1, 0), F(-1, 4), G(3, 4), H(3, 1)$