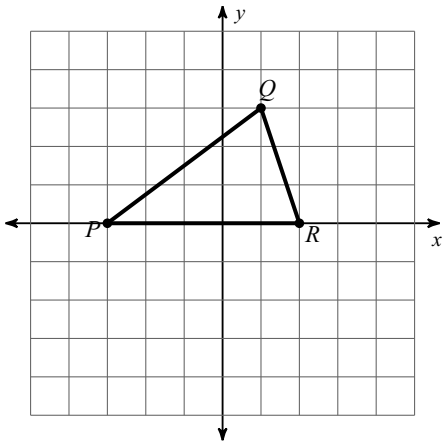
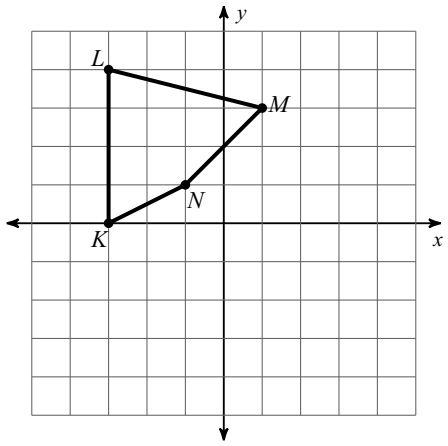
Reflection Practice Relflections are my mirror, my mirror staring back at me:_____

Graph the image of the figure using the transformation given. Write the symbolic representation.

1) reflection across the x-axis

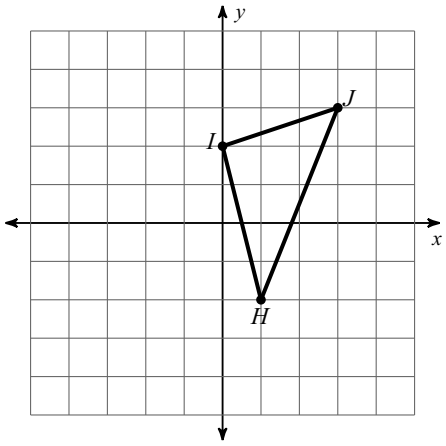


2) reflection across the y-axis

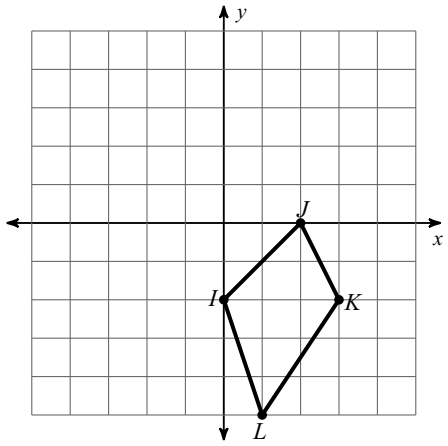


Graph the image of the figure using the symbolic representation of (x,y) --> (-x, y). Write a verbal description of the transformation.

3) reflection across the x-axis

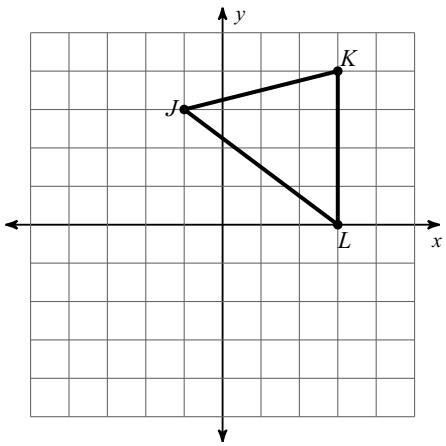


4) reflection across the x-axis

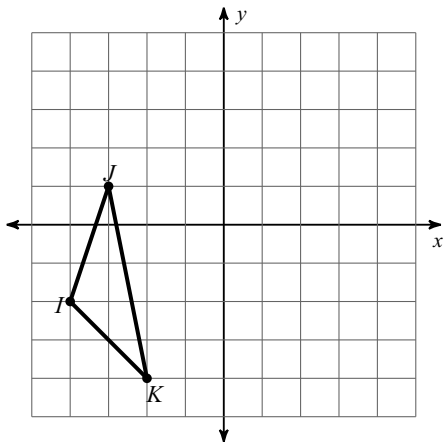


Graph the image of the figure using the symbolic representation of (x,y) --> (x, -y). Write a verbal description of the transformation.

5) reflection across the y-axis

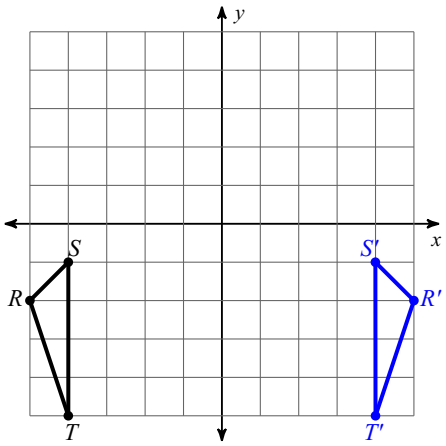


6) reflection across the x-axis

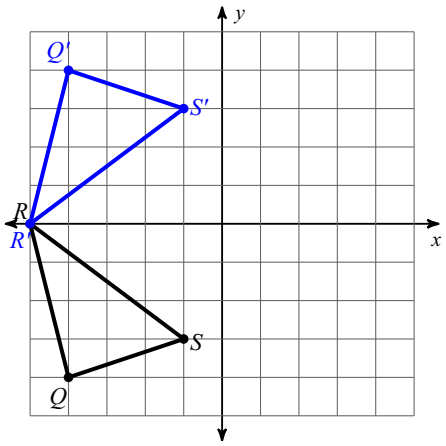


Write a symbolic and verbal representation of the given transformation.

7)



8)



Find the coordinates of the vertices based on the verbal description.

9) reflection across the y-axis
$U(-5, -3)$, $V(-3, 0)$, $W(-1, 0)$, $X(0, -3)$

10) reflection across the y-axis
$T(3, -3)$, $U(3, -2)$, $V(5, -4)$, $W(4, -5)$

11) reflection across the x-axis
$S(3, -4)$, $T(3, -3)$, $U(4, -3)$, $V(4, -4)$

12) reflection across the x-axis
$J(-1, 2)$, $K(4, 4)$, $L(2, -1)$

Use the coordinate pairs to write a verbal and symbolic representation of the transformation.

13) $E(0, 1)$, $F(3, 3)$, $G(3, -1)$
to
$F'(-3, 3)$, $G'(-3, -1)$, $E'(0, 1)$

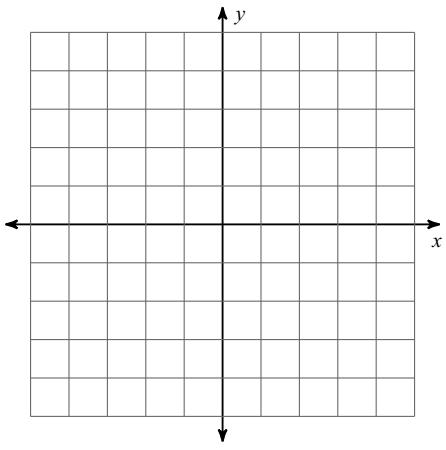
14) $I(-1, 0)$, $J(0, 3)$, $K(3, 1)$, $L(2, -2)$
to
$J'(0, 3)$, $K'(-3, 1)$, $L'(-2, -2)$, $I'(1, 0)$

15) $G(2, -2)$, $H(4, -1)$, $I(3, -3)$
to
$H'(-4, -1)$, $I'(-3, -3)$, $G'(-2, -2)$

16) $V(-3, -5)$, $W(-1, -2)$, $X(4, -3)$, $Y(0, -5)$
to
$W'(-1, 2)$, $X'(4, 3)$, $Y'(0, 5)$, $V'(-3, 5)$

Graph the image of the figure using the transformation given. Then write a symbolic representation of the transformation.

17) reflection across the x-axis
$S(3, 3)$, $T(4, 5)$, $U(5, 4)$, $V(5, 1)$



18) reflection across the x-axis
$T(-1, -4)$, $S(0, -1)$, $R(4, -1)$, $Q(4, -5)$