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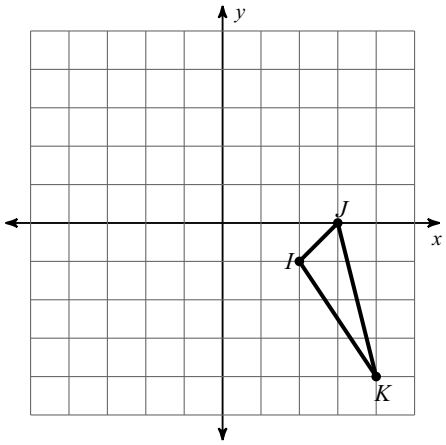
# Transformations Review

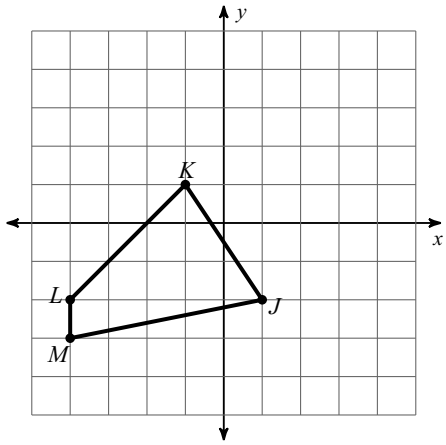
Date_____ Period____

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

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




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



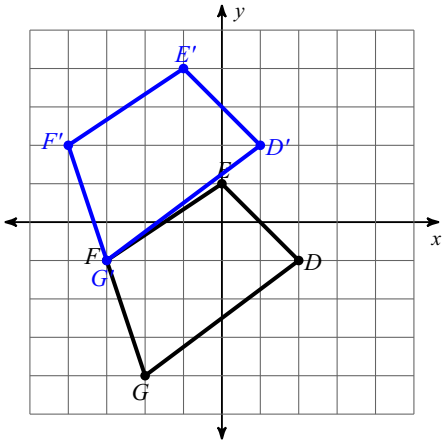

**Find the coordinates of the vertices of each figure after the given transformation.**

3) translation: $(x, y) \rightarrow (x - 2, y - 5)$
$K(1, 3)$

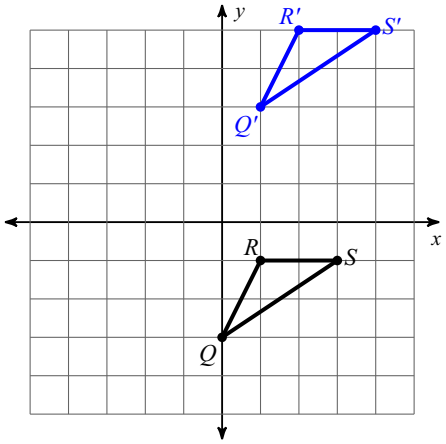
4) translation: $(x, y) \rightarrow (x - 4, y)$
$E(2, 0)$, $D(0, 5)$, $C(3, 5)$, $B(4, 2)$

**Write a rule to describe each transformation.**

5)




6)

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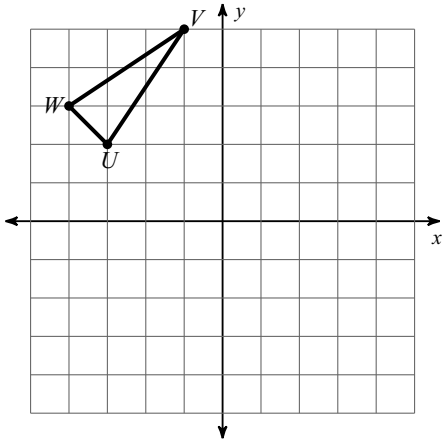
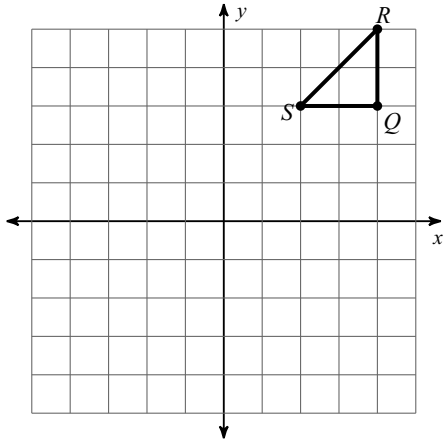
**Graph the image of the figure using the transformation given.**

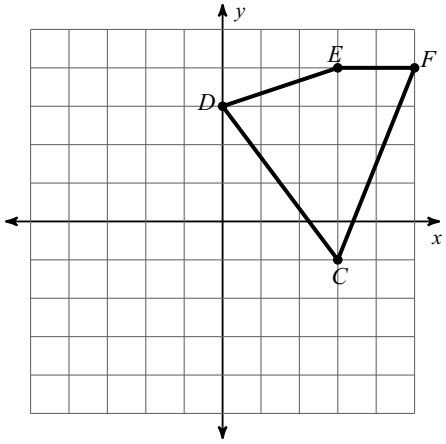
7) reflection across the y-axis



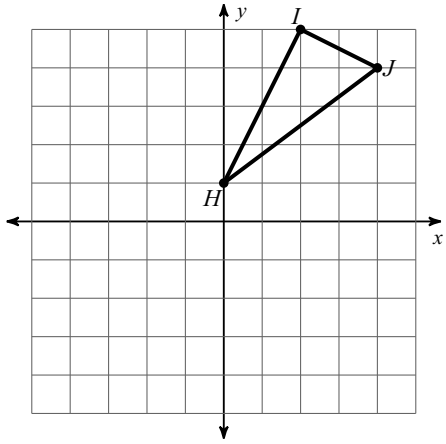

8) reflection across the x-axis




9) reflection across $y = -x$




10) reflection across $y = -x$




**Write a rule to describe each transformation.**

11) $J(-5, -1), I(-2, 2), H(0, -3)$
to
$I'(-2, 2), H'(3, 0), J'(1, 5)$

12) $I(-3, -5), H(-3, -4), G(-1, -4)$
to
$H'(3, -4), G'(1, -4), I'(3, -5)$

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

13) reflection across the x-axis
$Z(2, -4), Y(5, 0), X(5, -3)$

14) reflection across $y = x$
$I(2, -4), J(1, -2), K(5, -4)$

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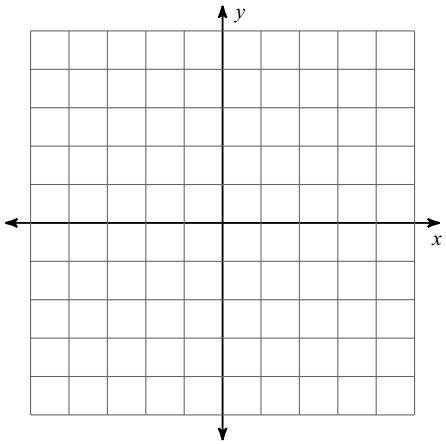
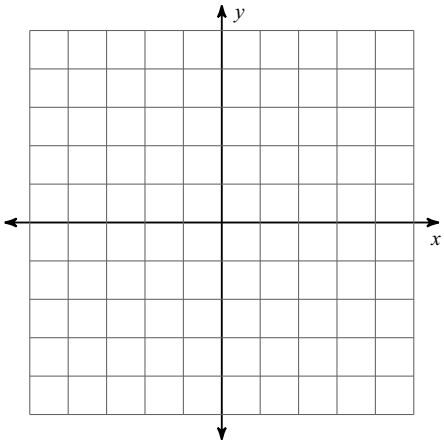
**Graph the image of the figure using the transformation given.**

15) rotation 180° about the origin
$G(0, 3)$, $F(1, 5)$, $E(4, 4)$




16) rotation 90° counterclockwise about the origin
$F(-5, 2)$, $E(-5, 4)$, $D(-1, 5)$, $C(-2, 1)$




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

17) rotation 180° about the origin
$G(1, -5)$, $F(1, -4)$, $E(3, -5)$

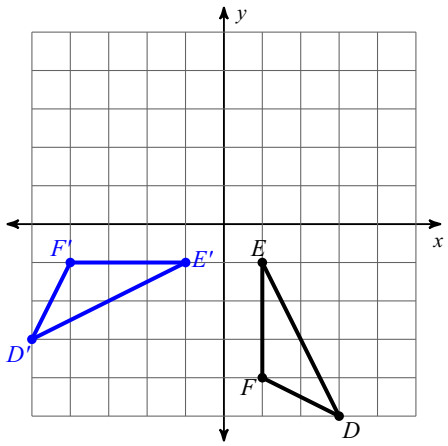
18) rotation 90° counterclockwise about the origin
$A(0, -2)$, $B(1, 1)$, $C(4, -2)$, $D(3, -4)$

**Write a rule to describe each transformation.**

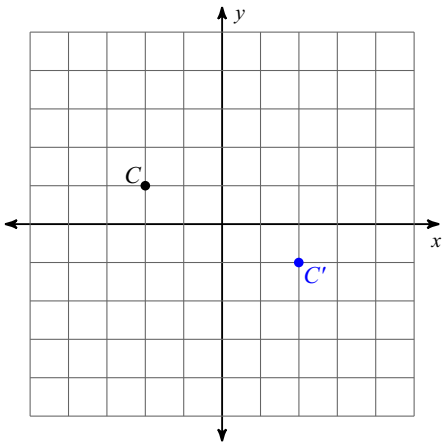
19) $P(-1, 1)$, $Q(-3, 4)$, $R(-2, 5)$, $S(0, 1)$
to
$P'(-1, -1)$, $Q'(-4, -3)$, $R'(-5, -2)$, $S'(-1, 0)$

20) $S(-4, -1)$, $T(-2, 3)$, $U(0, 0)$, $V(-3, -4)$
to
$S'(4, 1)$, $T'(2, -3)$, $U'(0, 0)$, $V'(3, 4)$

21)




22)

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