

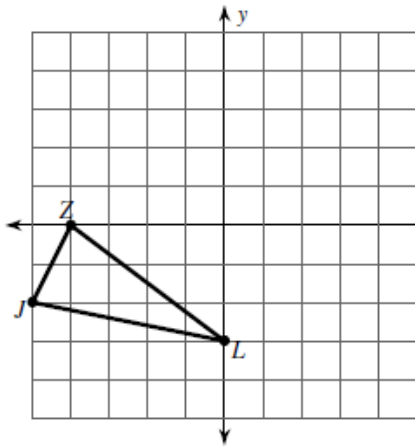
Math 2

Name: _____

Unit 1 Quiz 1 Review

Graph the image of the figure using the transformation given AND write the algebraic rule.

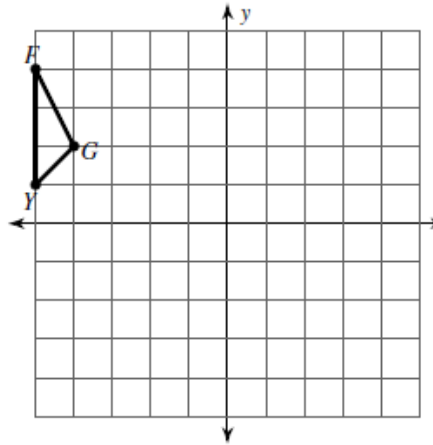
1) rotation 90° counterclockwise about the origin



Algebraic Rule:

Notation:

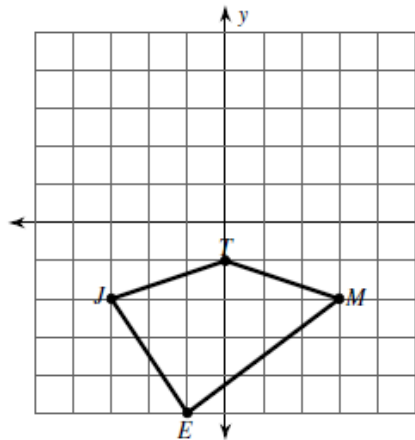
2) translation: 4 units right and 1 unit down



Algebraic Rule:

Notation:

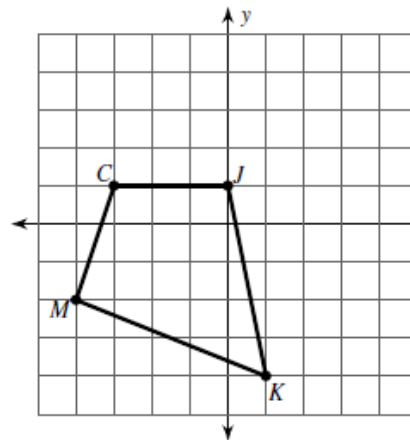
3) translation: 1 unit right and 1 unit up



Algebraic Rule:

Notation:

4) reflection across the x-axis

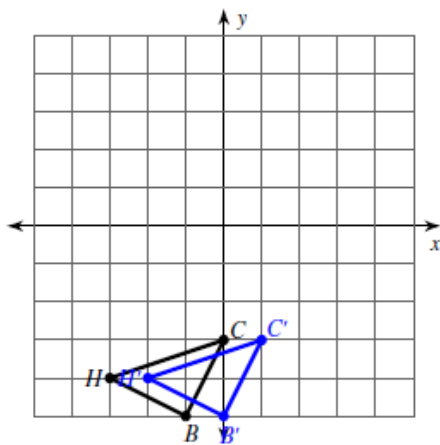


Algebraic Rule:

Notation:

Write a verbal description and a motion rule, as requested, to describe each transformation.

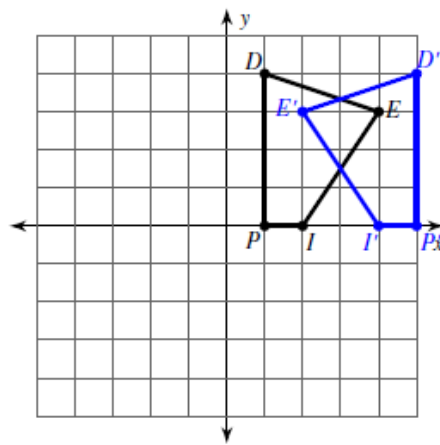
5)



Description:

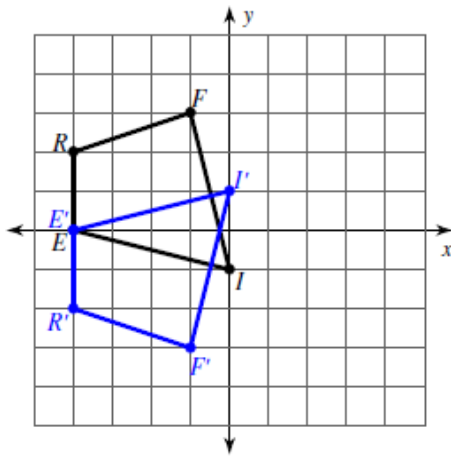
Algebraic Rule:

6)



Description:

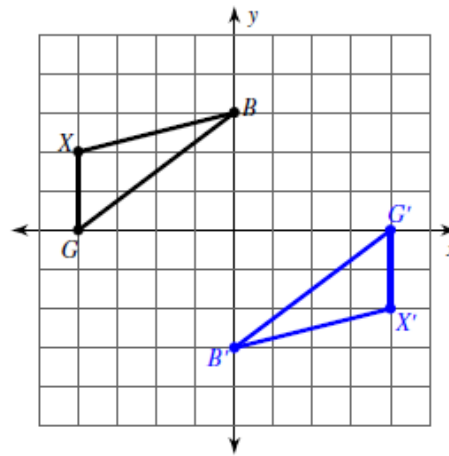
7)



Description:

Algebraic
Rule:

8)



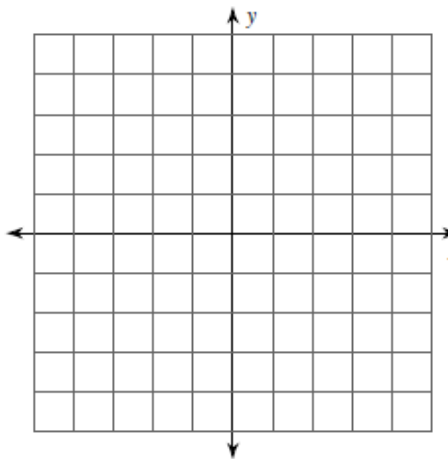
Description:

Algebraic
Rule:

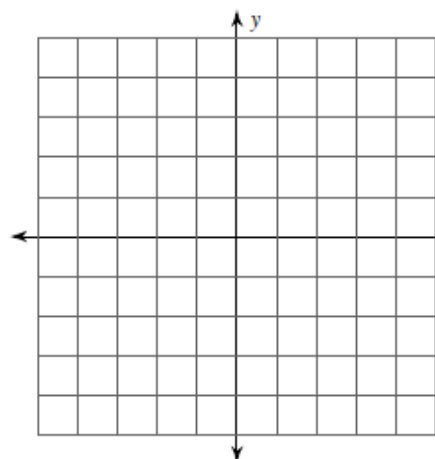
Graph the image of the figure using the transformation given and write the algebraic rule.

- 9) rotation 90° clockwise about the origin
 $B(-2, 0)$, $C(-4, 3)$, $Z(-3, 4)$, $X(-1, 4)$

- 10) reflection across $y = x$
 $K(-5, -2)$, $A(-4, 1)$, $I(0, -1)$, $J(-2, -4)$

Algebraic
Rule:

Notation:

Algebraic
Rule:

Notation:

Find the coordinates of the vertices of the figure using the transformation given and write the algebraic rule, as requested.

- 11) rotation 180° about the origin
 $E(2, -2)$, $J(1, 2)$, $R(3, 3)$, $S(5, 2)$

Vertices:

Algebraic Rule:

Notation:

- 12) reflection across $y = 2$
 $J(1, 3)$, $U(0, 5)$, $R(1, 5)$, $C(3, 2)$

Vertices:

Notation:

- 13) translation: 7 units right and 1 unit down
 $J(-3, 1)$, $F(-2, 3)$, $N(-2, 0)$

Vertices:

Algebraic Rule:

Notation:

- 14) translation: 6 units right and 3 units down
 $S(-3, 3)$, $C(-1, 4)$, $W(-2, -1)$

Vertices:

Algebraic Rule:

Notation: