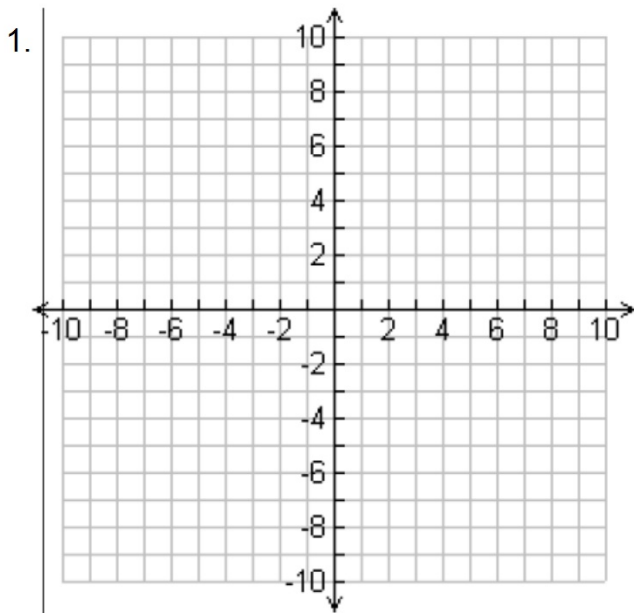


Friday, March 10, 2017



Graph the equation:
 $2x + y = -6$

2. Solve:

$$8k - 4 - 3k - 17 = -21$$

3.

Simplify:

$$6d - 4(3d + 5) + 3(d - 10)$$

4.

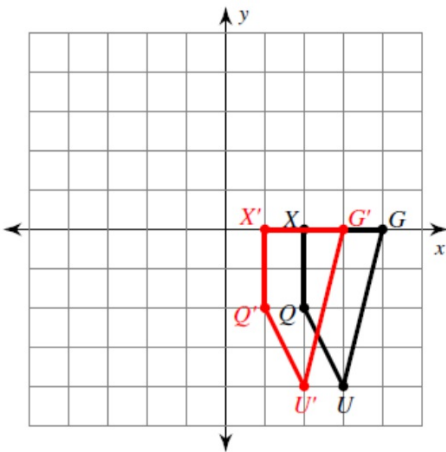
A rectangle is 9 cm wide and 14 cm long.
Find the length of a diagonal of the
rectangle.

**Homework Check:
Translations of Shapes Worksheet**

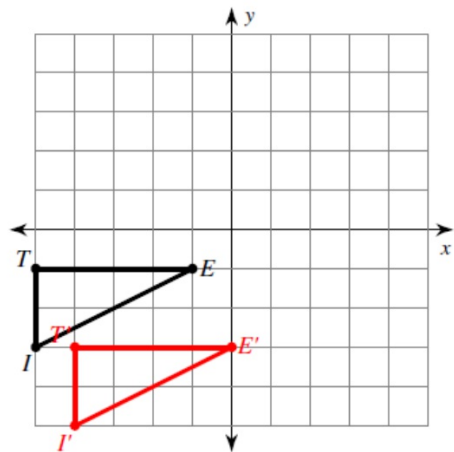
#9

#11

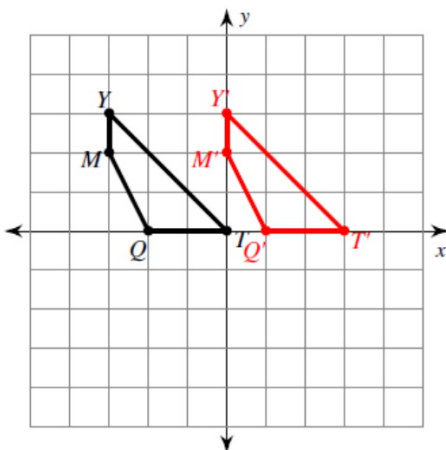
1) translation: 1 unit left



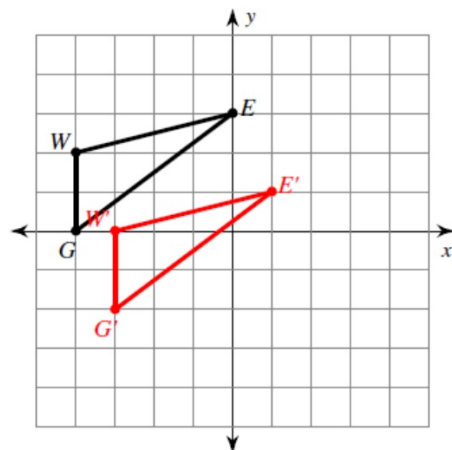
2) translation: 1 unit right and 2 units down



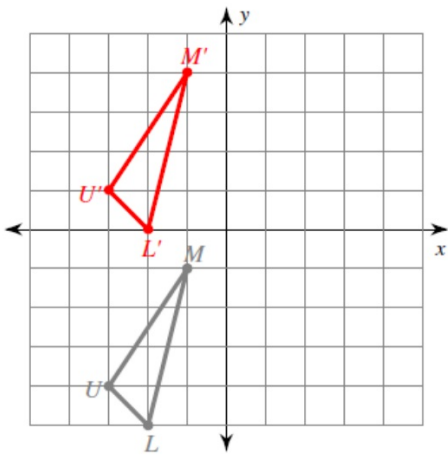
3) translation: 3 units right



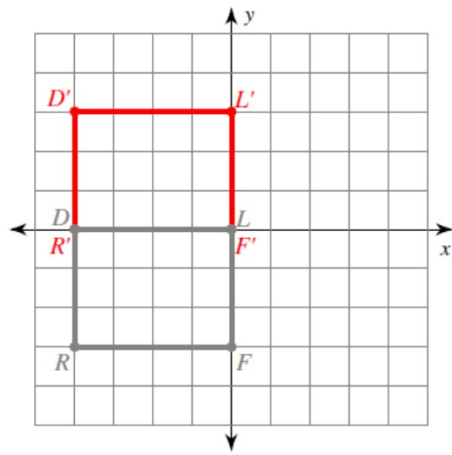
4) translation: 1 unit right and 2 units down



- 5) translation: 5 units up
 $U(-3, -4), M(-1, -1), L(-2, -5)$



- 6) translation: 3 units up
 $R(-4, -3), D(-4, 0), L(0, 0), F(0, -3)$



7) translation: 2 units left and 1 unit down

$$Q(0, -1), D(-2, 2), V(2, 4), J(3, 0)$$
$$\begin{array}{cccc} -2 & -1 & -2 & -1 \\ -2 & -1 & -2 & -1 \\ -2 & -1 & -2 & -1 \\ -2 & -1 & -2 & -1 \end{array}$$
$$Q'(-2, -2), D'(-4, 1), V'(0, 3), J'(1, -1)$$

8) translation: 2 units down

$$D(-4, 1), A(-2, 5), S(-1, 4), N(-1, 2)$$
$$\begin{array}{cccc} -2 & -2 & -2 & -2 \end{array}$$
$$D'(-4, -1), A'(-2, 3), S'(-1, 2), N'(-1, 0)$$

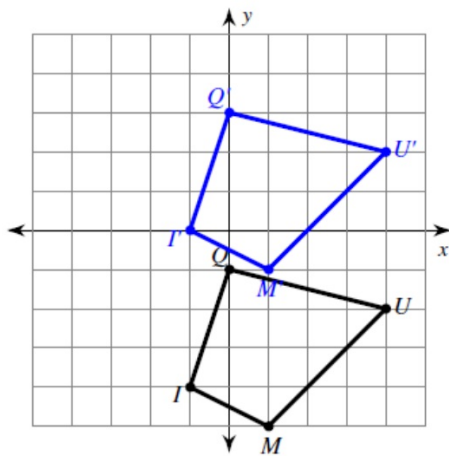
9) translation: 4 units left and 4 units up

$$J(-1, -2), A(-1, 0), N(3, -3)$$
$$\begin{array}{ccc} -4 & +4 & -4 & +4 \\ -4 & +4 & -4 & +4 \\ -4 & +4 & -4 & +4 \end{array}$$
$$J'(-5, 2), A'(-5, 4), N'(-1, 1)$$

10) translation: 3 units right and 4 units up

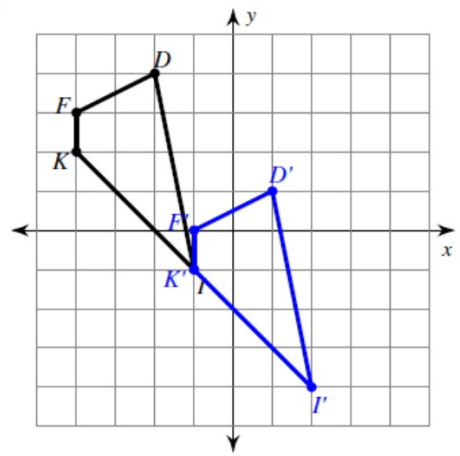
$$Z(-4, -3), I(-2, -2), V(-2, -4)$$
$$\begin{array}{ccc} +3 & +4 & +3 & +4 \\ +3 & +4 & +3 & +4 \\ +3 & +4 & +3 & +4 \end{array}$$
$$Z'(-1, 1), I'(1, 2), V'(1, 0)$$

11)



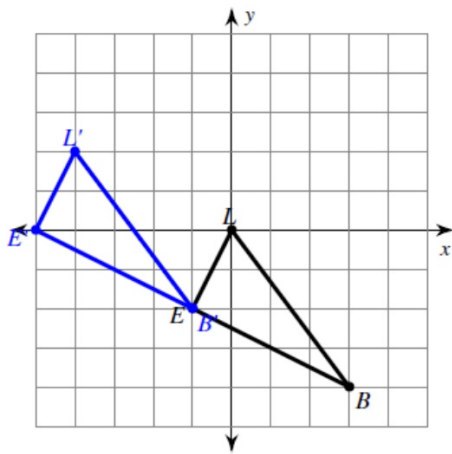
translation: 4 units up

12)



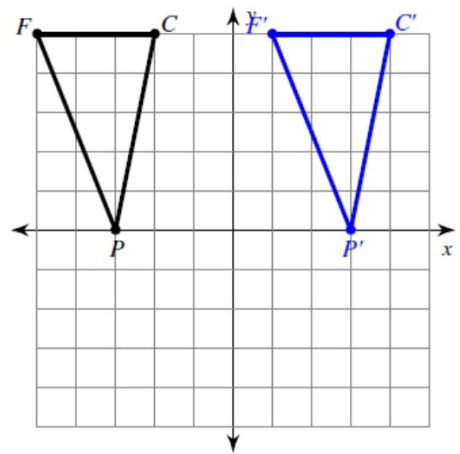
translation: 3 units right and 3 units down

13)



translation: 4 units left and 2 units up

14)



translation: 6 units right

Reflections

Reflections

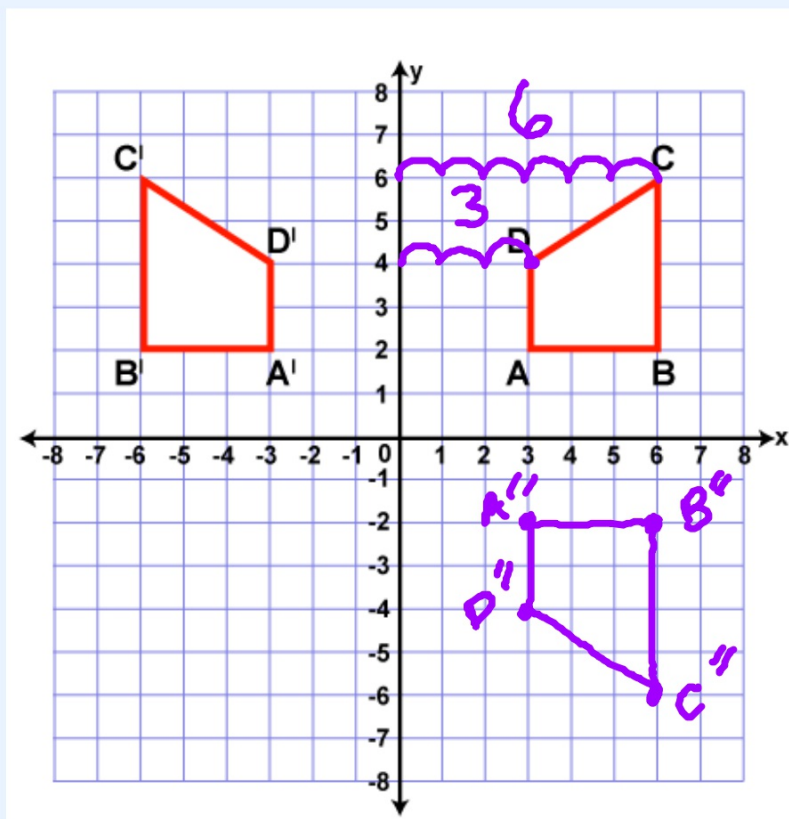
A reflection is a mirror image where the original figure (A, B, C, etc.) is **FLIPPED over the **x-axis** or the **y-axis** to create a new image (A', B', C', etc.).**

Reflections

****Count # of spots from axis**

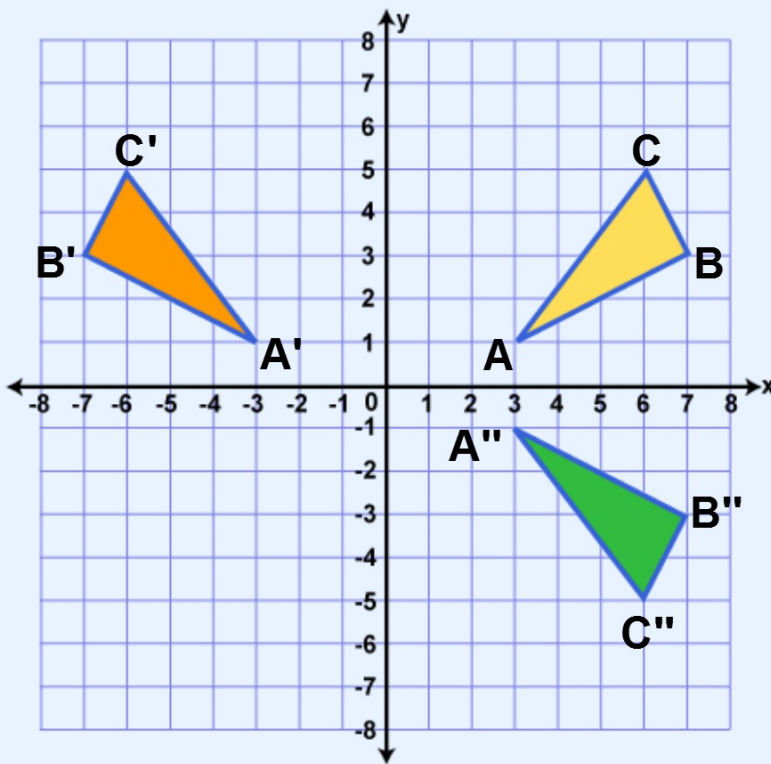
****Move that # to other side of axis**

Describe This Transformation



What do you notice?

ANSWER



$$A(3,1) \quad A'(\underline{-3}, \underline{1})$$

$$B(7,3) \quad B'(\underline{-7}, \underline{3})$$

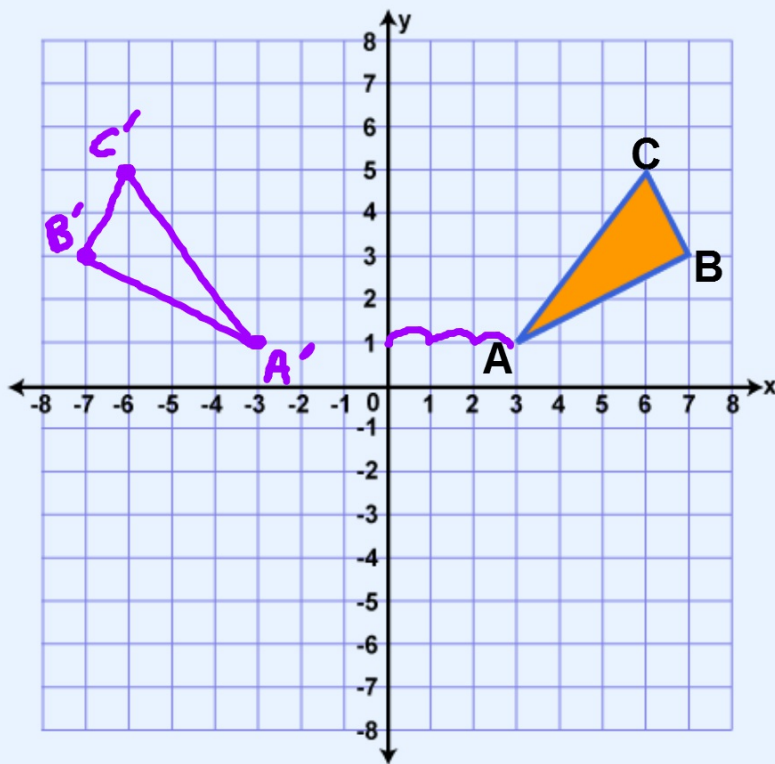
$$C(6,5) \quad C'(\underline{-6}, \underline{5})$$

$$A(3,1) \quad A''(\underline{3}, \underline{-1})$$

$$B(7,3) \quad B''(\underline{7}, \underline{-3})$$

$$C(6,5) \quad C''(\underline{6}, \underline{-5})$$

Reflect ABC across the y-axis



A' B' C'