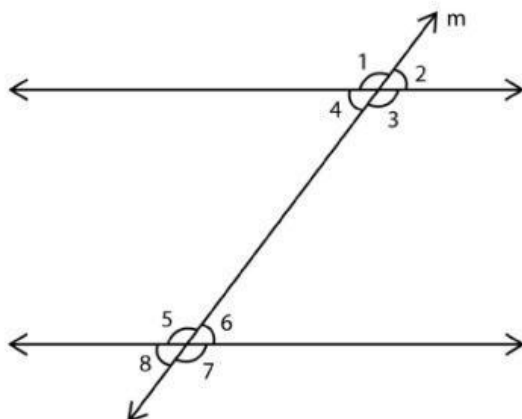


Geometry A Day 4

This is a Review Packet on Problems Completed this Week
Please complete this and hand it in to Mrs. A

- A) A set of parallel lines is cut by the transversal m . $\angle 2 = 45^\circ$. Find the measures of the remaining angles.



1) $m\angle 1 =$ _____

2) $m\angle 3 =$ _____

3) $m\angle 4 =$ _____

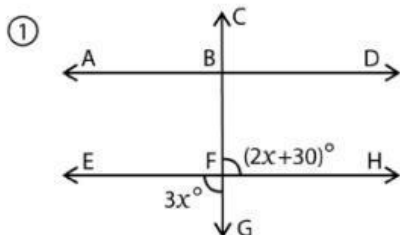
4) $m\angle 5 =$ _____

5) $m\angle 6 =$ _____

6) $m\angle 7 =$ _____

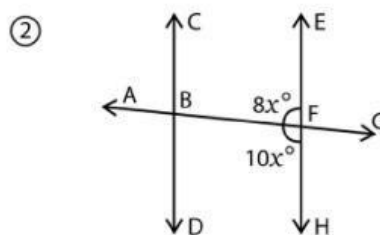
7) $m\angle 8 =$ _____

- B) Solve for x and find the measure of each marked angle.



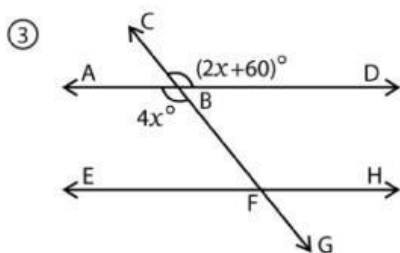
$x =$ _____

$\angle EFG =$ _____ $\angle HFC =$ _____



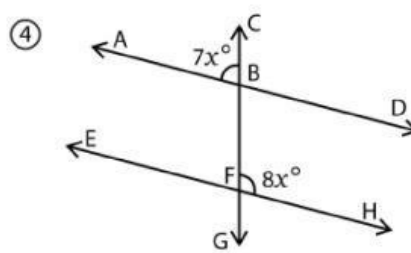
$x =$ _____

$\angle AFH =$ _____ $\angle AFE =$ _____



$x =$ _____

$\angle ABG =$ _____ $\angle CBD =$ _____

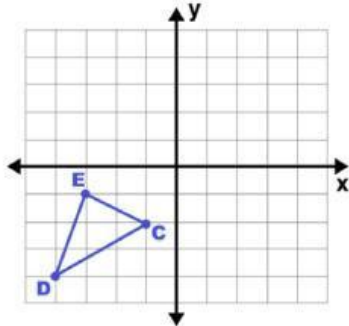


$x =$ _____

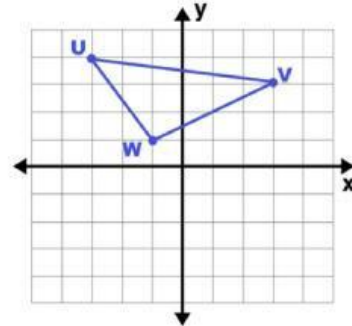
$\angle CBA =$ _____ $\angle CFH =$ _____

Part I: Graph the image of each figure using the given transformation.

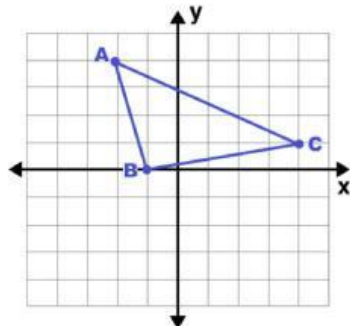
1.) Reflection across the y-axis



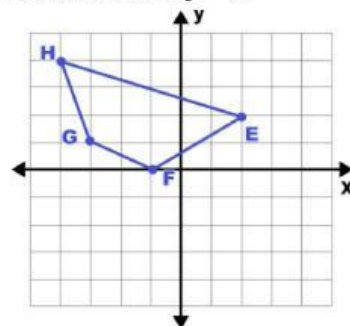
2.) Reflection across the x-axis



3.) Reflection across the x-axis

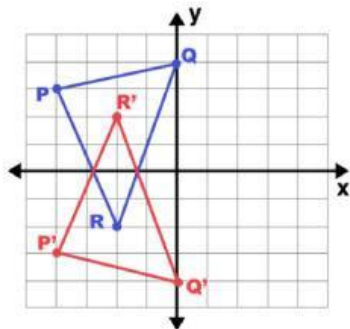


4.) Reflection over $y = x$

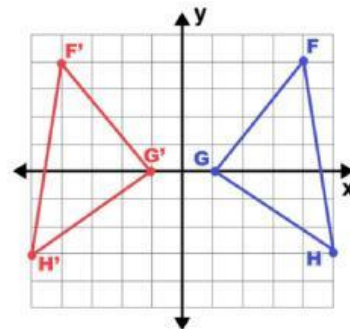


Part II: Write a rule to describe the transformation.

5.)



6.)

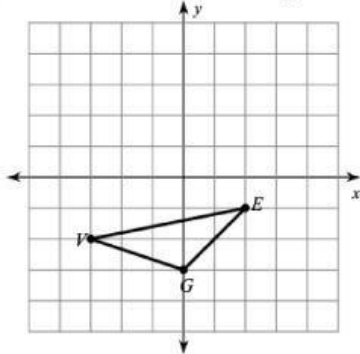


Use words to describe what the following rules do to a figure on the coordinate grid...

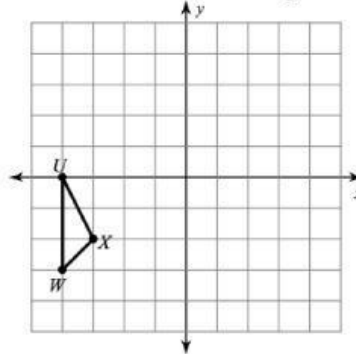
$$(x, y) \rightarrow (x+4, y-8)$$

$$(x, y) \rightarrow (x-2, y+10)$$

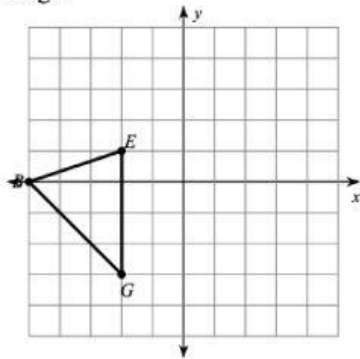
7) rotation 180° about the origin



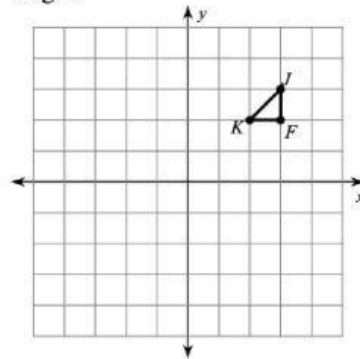
8) rotation 180° about the origin



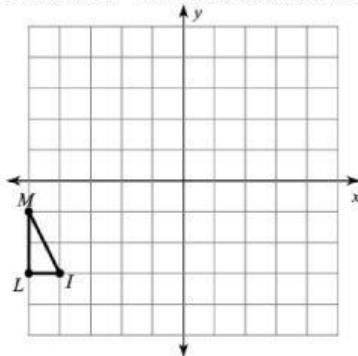
9) rotation 90° counterclockwise about the origin



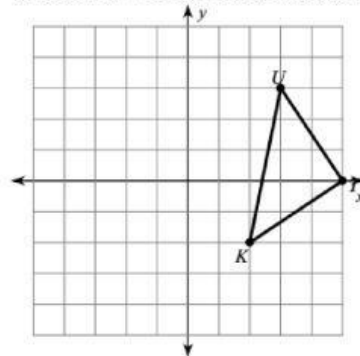
10) rotation 90° counterclockwise about the origin



11) rotation 90° clockwise about the origin



12) rotation 90° clockwise about the origin



13) Why do the 180-degree rotations not say clockwise or counterclockwise?

Name _____ Date _____ AM or PM _____

14) Circle the following letters that have LINE symmetry

A C E R T X B H J Q P M N

15) Circle the following letters that have POINT symmetry

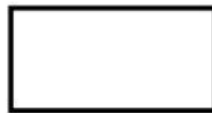
A C E R T X B H J Q P M N

DRAW in all of the lines of symmetry for each shape below...

(a)



(b)



(c)



(d)



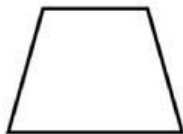
(e)



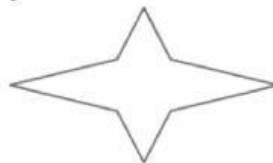
(f)



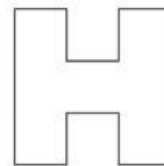
(g)



(h)



(i)



Name _____ Date _____ AM or PM _____

Solve each equation.

1) $-2a + 7a = 10$

2) $v - 7 + 3v = -15$

3) $2 = -5x - 1 + 6x$

4) $-6 = -3x - 3x$

5) $4n - 7 + 6n = -7$

6) $-24 = 5k - k$

7) $0 = 2x + 3x$

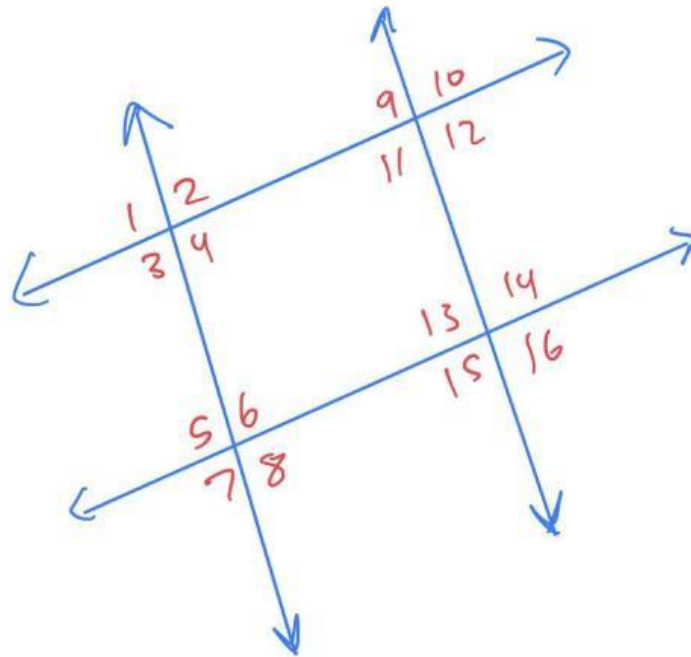
8) $1 + 3p + 6p = -17$

9) $7n + 3n = -10$

10) $m + 5 - 7m = 11$

Name _____ Date _____ AM or PM _____

Solve for x using this diagram and given the following situations.



- 1) If angle $11 = 3x + 6$, and angle $9 = 9x + 6$, what is the value of x ?

- 2) If angle $4 = 15x + 8$ and angle $9 = 2x + 34$, what is the value of x ? (Note: the information from question 1 no longer applies)

- 3) If angle $5 = 2x + 9$ and angle $13 = 11x + 18$, what is the value of x ? (Note: the information from questions 1 and 2 no longer applies)