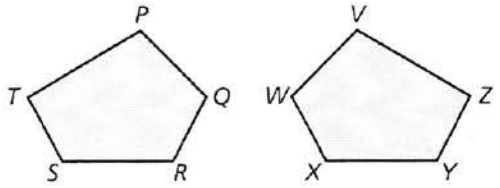
Name_____ Date_____

2.1-2.4 – Review

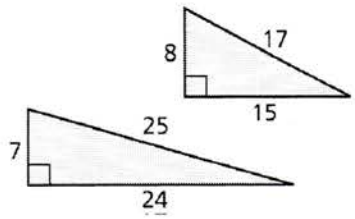
1) The figures are congruent. Name the corresponding angles and the corresponding sides.



Corresponding Sides	Corresponding Angles
$\overline{PQ} \cong \overline{WV}$	$\angle T \cong \angle Z$
$\overline{QR} \cong \overline{WX}$	$\angle P \cong \angle V$
$\overline{RS} \cong \overline{XY}$	$\angle Q \cong \angle W$
$\overline{ST} \cong \overline{YZ}$	$\angle R \cong \angle X$
$\overline{TP} \cong \overline{ZV}$	$\angle S \cong \angle Y$

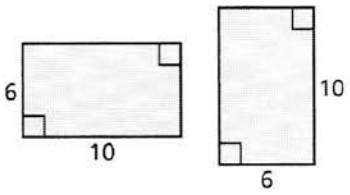
Tell whether the two figures are congruent. Explain your reasoning.

2)



No. The sides are not $\cong$.

3)



Yes. Corresponding angles and sides are $\cong$.

4) The pentagons are congruent. Determine whether the statement is *true* or *false*.

a. $\angle B$ is congruent to $\angle C$. T

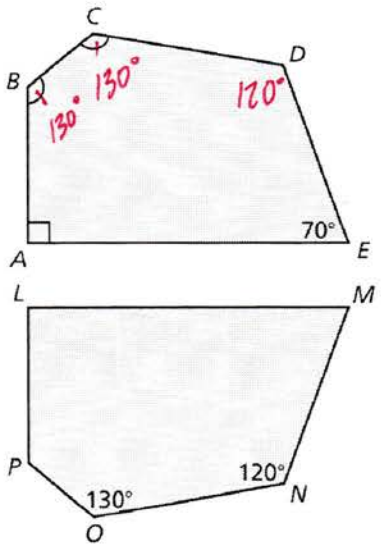
b. Side MN is congruent to side AE. F

c. $\angle B$ corresponds to $\angle O$. F

d. Side BC is congruent to side PO. T

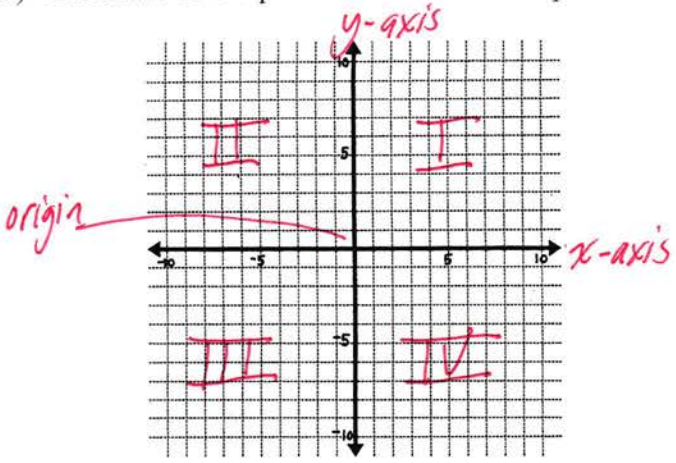
e. The sum of the angle measures of $LMNOP$ is 540°. T

f. The measure of $\angle B$ is 120°. F



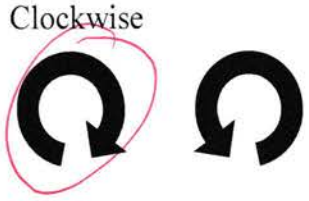
130
130
120
70
+ 90
540°

5) Label the seven parts of the coordinate plane:

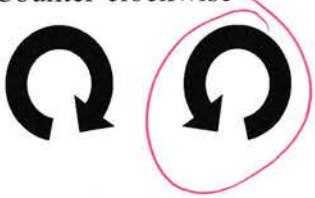


6) Circle the correct direction for the following:

a) Clockwise



b) Counter-clockwise



7) Plot the following ordered pairs (coordinates) on the coordinate plane. Make sure you label the points. After plotting, indicate the location of the point (ie: which quadrant or axis it lies on)

A(-3, 4) II

B(-2, -4) III

C(6, 0) x-axis

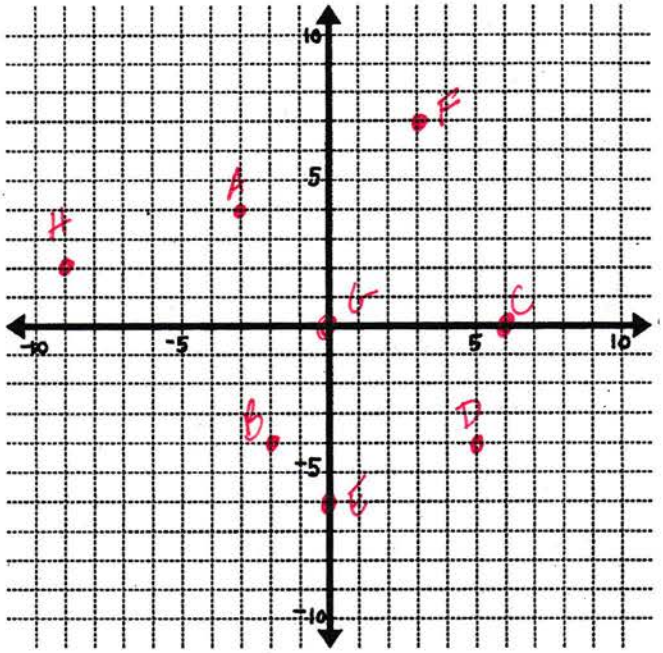
D(5,-4) IV

E(0,-6) y-axis

F(3,7) I

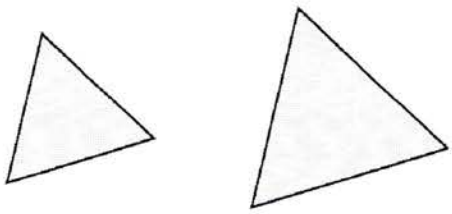
G(0, 0) origin

H(-9, 2) ~~II~~ II



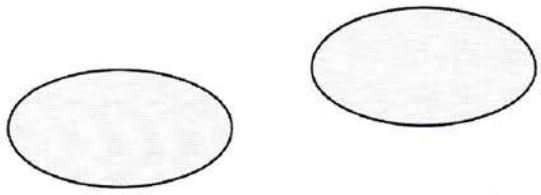
Tell whether the right figure is a translation of the left figure. Explain your reasoning.

8)



No. The size changes

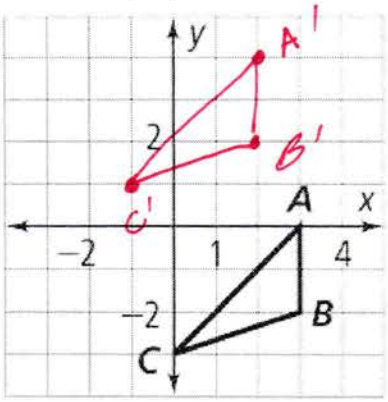
9)



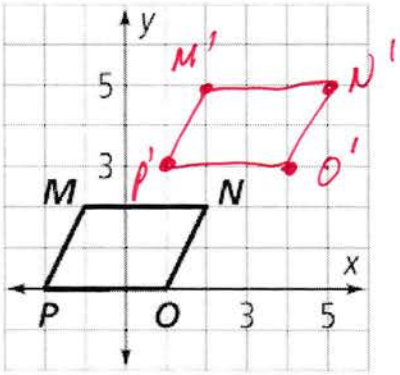
Yes. When the slide happens, it remains the same

Graph the image of each figure under the given translation.

10) Left 1 unit, Up 4 units

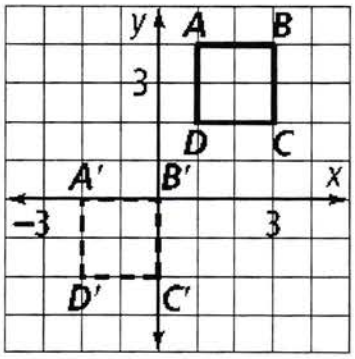


11) Right 3 units, Up 3 units

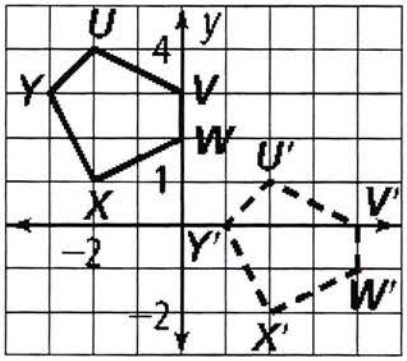


The dashed-line figure is a translation image of the solid-line figure. Describe the translation. (How much did it move left or right? How much did it move up or down?)

12) Left 3, Down 4

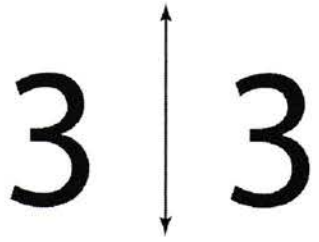


13) Right 4, Down 3



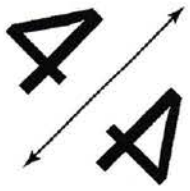
Tell whether the one figure is a reflection of the other figure. Explain your reasoning.

14)



No. Not a mirror image.

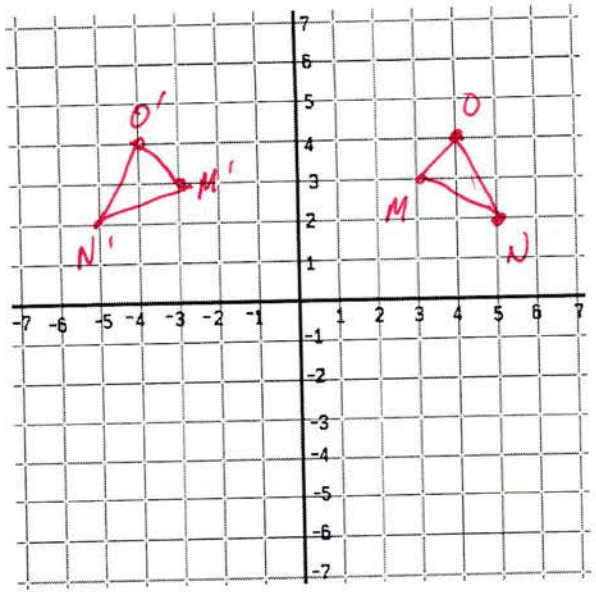
15)



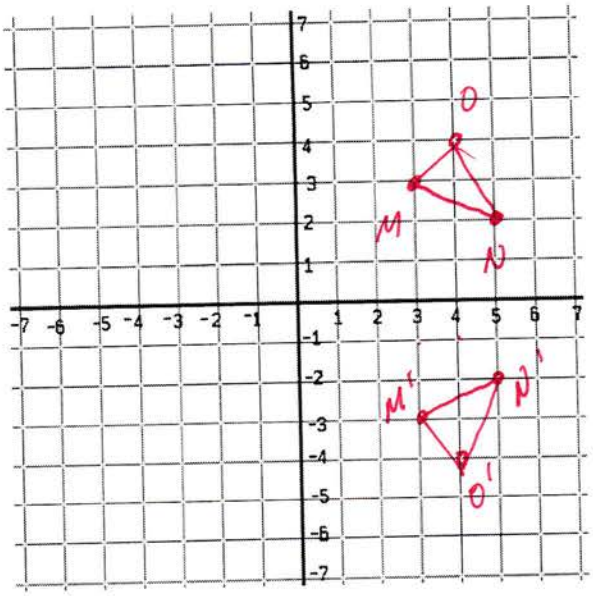
Yes. Mirror image

Given points $M(3, 3)$, $N(5, 2)$, and $O(4, 4)$, graph ΔMNO and its reflection image across each line

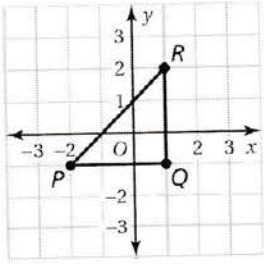
16) the y-axis

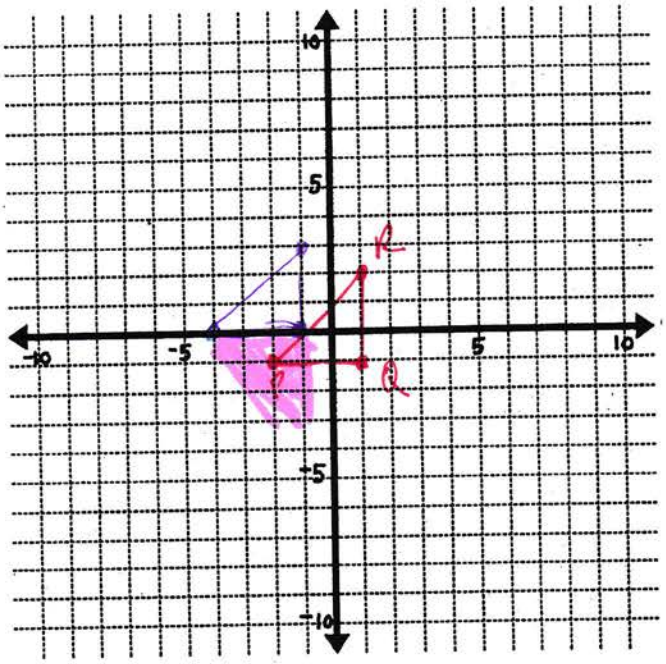


17) the x-axis



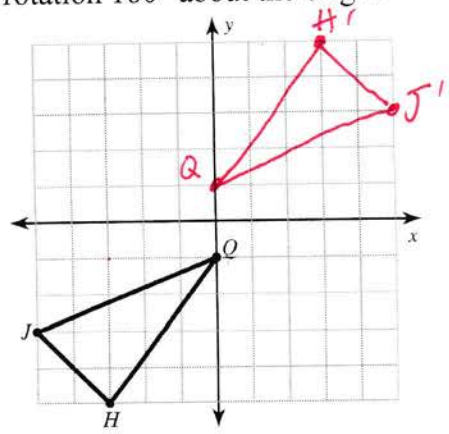
18) Copy the following in the bigger coordinate plane. Afterwards, translate the triangle 2 units left and 1 unit up. Then reflect the image in the x-axis. Graph the resulting triangle.



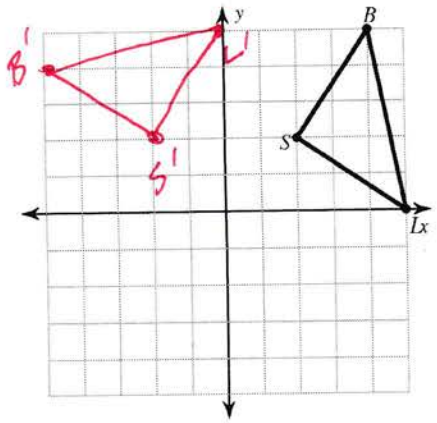


Graph the following:

19) rotation 180° about the origin

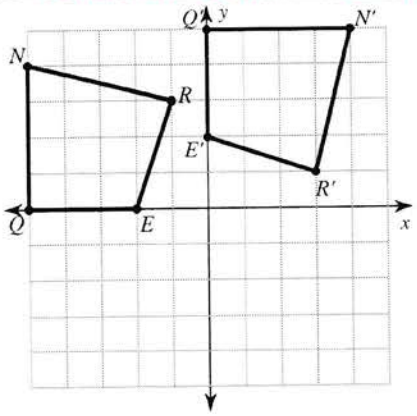


20) rotation 90° counterclockwise about the origin



Describe each rotation around the origin.

21) Rotation Clockwise 90°



22) Rotation 180°