Unit 3 Review Test Thursday October 10,2019



- 1- Write a description of the rule $(x, y) \rightarrow (x+10, y+8)$.
 - (a) /translation 10 units to the right and 8 units up
 - (b) translation 10 units to the left and 8 units down
 - (c) translation 10 units to the right and 8 units down
 - (d) translation 10 units to the left and 8 units up 2- Point A(-2, -10) is reflected over the x-axis. Write the coordinates of A'.

(a)
$$(2,-10)$$
,

(c)
$$(-2,-10)$$

3- Point D(2,4) is rotated 180° about the origin, what is the coordinate of D?

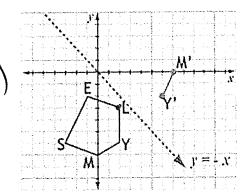
(a)
$$(-4,2)$$

(b)
$$(4,-2)$$

4- If this pentagon is reflected across y=-x

What would the coordinate for point L' (-1,-1) $L(2,-3) \rightarrow L'(3,-2)$

$$L(2,-3) \rightarrow L'(3,-2)$$



5- The coordinates of the vertices of triangle 1 are A(6,6), B(12,9), C(9,6).

The coordinates of the vertices of triangle 2 are A'(-6,-6), B'(-12,-9), C'(-9,-6).

What transformation was performed on triangle 1 to create triangle 2?

a- Translation

b-Reflection across the y-axis

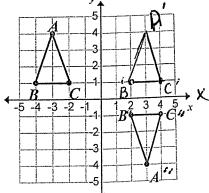
c- Reflection across y=x

d-Rotation 180 degree

- 6-
- a- Describe the types of transformations the triangle ABC Undergoes

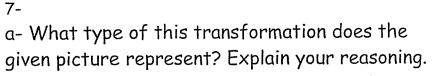
1. Translated 6 units to the right

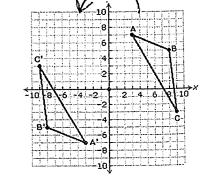
2. Reflected across the x-axis. ** (Answers may Vary



b- Are the above two triangles congruent? Explain your reasoning

Yes, Because Sizes and Shapes were Preserved.





$$A(3,7) \longrightarrow A'(-3,7)$$

$$Rotation (860)$$

$$(x,y) \longrightarrow (-x,-y)$$

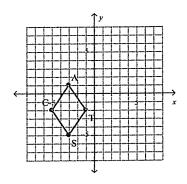
b- Describe the transformation that you chose based on the picture

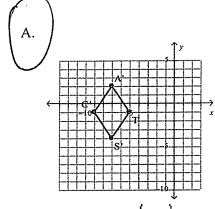
The picture was Rotated around the origin Counterclockwise, 180°.

8- A recycling logo is shown. Describe all the transformations that map this logo onto itself.

It has Rolational Symmetry We Can votate this image 3 times 120° each time and it will give us the same image back

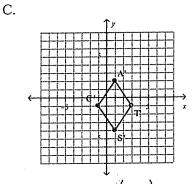
9- Apply the transformation $(x,y) \rightarrow (x-4,y+1)$ to the rhombus below. What single vector maps the pre-image onto the image?





The vector is $\{-4, 1\}$.

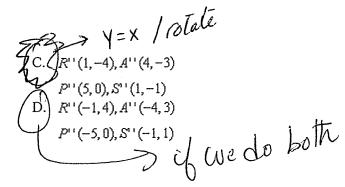
B.



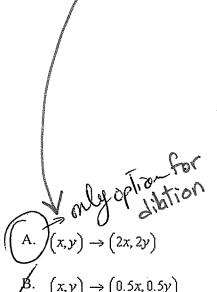
The vector is (4,-1).

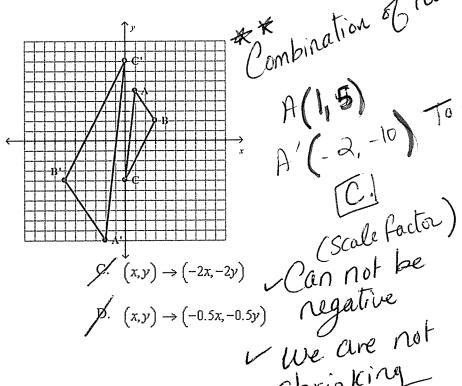
D.

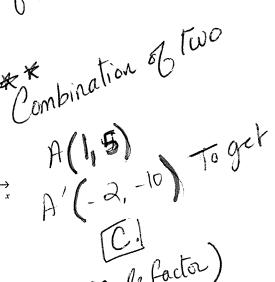
- 10 .Quadrilateral RAPS is located at the vertices R(-4,1), A(-3,4), P(0,5), S(-1,1). Where will points $R^{(i)}, A^{(i)}, P^{(i)}, S^{(i)}$, be located after the quadrilateral has been reflected across the line y = x and then rotated 180° about the origin?
 - A. $R^{(1)}(1,4), A^{(1)}(4,3)$
 - P''(5,0), S''(1,1)
 - B. R''(-4, 1), A''(-3, 4)
 - $P^{(1)}(0,5), S^{(1)}(-1,1)$



11. What dilation maps triangle ABC onto triangle A'B'C' below?





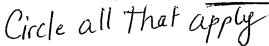


$$(x,y) \to (-0.5x, -0.5y)$$

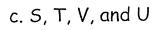
* For this question if it asked Shrinking for Transformations I would pick C

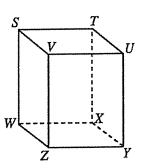
But it only ask for dilation here.

1- Which set of four points are not coplanar?





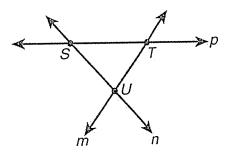




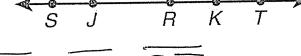
2- Name all the rays that has an endpoint U



2 Rays



3- How many line segments does this picture have?



ST JR RK KT SR SK ST

lo line Segments

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	3	e.	