

Unit 2 Review Questions

Name: Key

1- If the reflection of point A across line m is the point A', then line m is the

perpendicular bisector of AA'

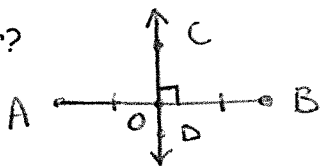
Where A is the pre-image and A' is the image

2- The composition of two reflections across parallel line is a Translation

3- The composition of two reflections across intersecting line is a Rotation

4- What is a perpendicular bisector?

✓ Cuts a line in half
✓ make a 90° angle



✓ $\angle COA = \angle COB$
✓ $\overline{AO} = \overline{BO}$

5- What is rigid transformation?

Transformation that reserve the shape and The size of an image. It only change position.

6- What is the difference between a pre-image and an image and how do we label them?

pre-image \rightarrow before transformation ex: A \rightarrow use (')
image \rightarrow After Transformation ex: A'

7- What is rotation? What are the main parts involved in rotating an image?

Rotation is Turning The image

- Center of rotation
- direction (clockwise or Counter clock)
- Angle of rotation (90° , 180° ,)

8- Define translation and reflection

Translation \rightarrow Slide

Reflection \rightarrow Flip

9- Which of the following transformations does not result in a congruent figure?

(a) dilation (c) reflection

(b) rotation (d) translation

* dilation \rightarrow shrink or Enlarge image

10 - The pre-image and image of what transformation is congruent?

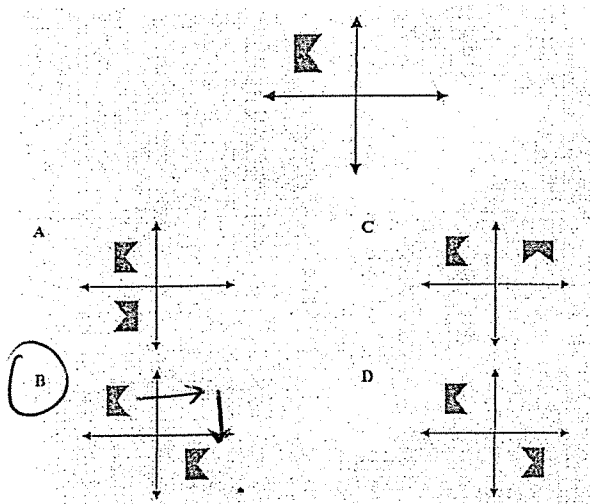
A. Reflection and dilation

C. dilation

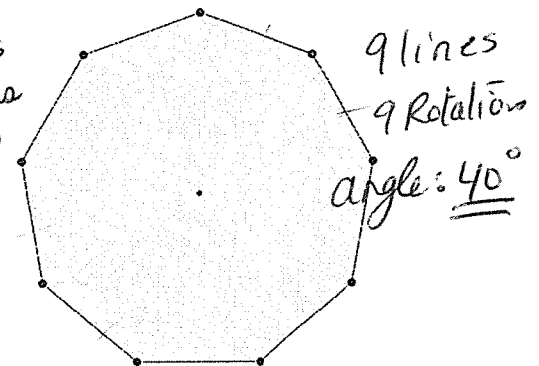
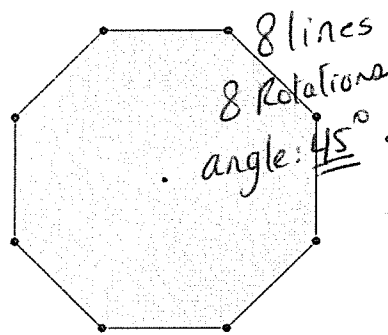
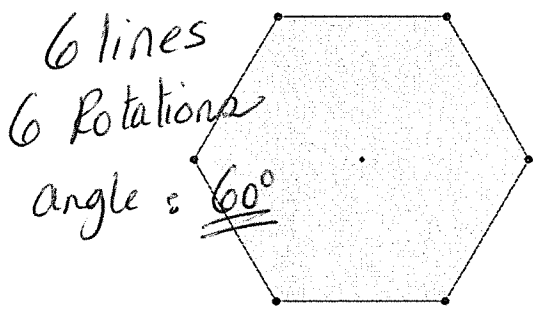
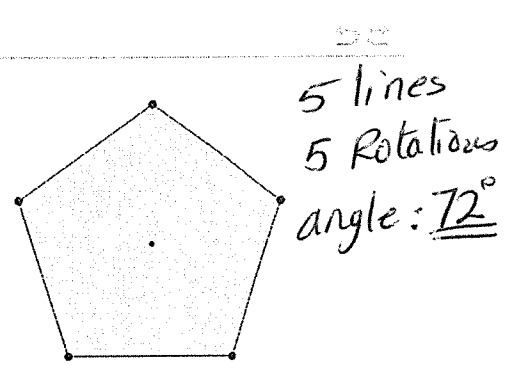
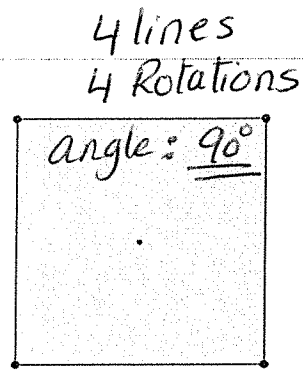
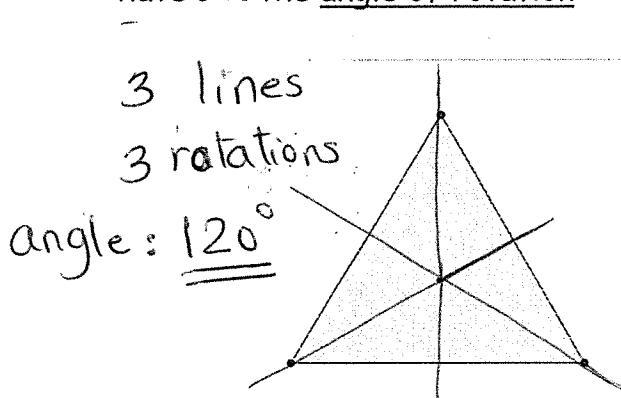
B. Translation, Reflection, and rotation

D.

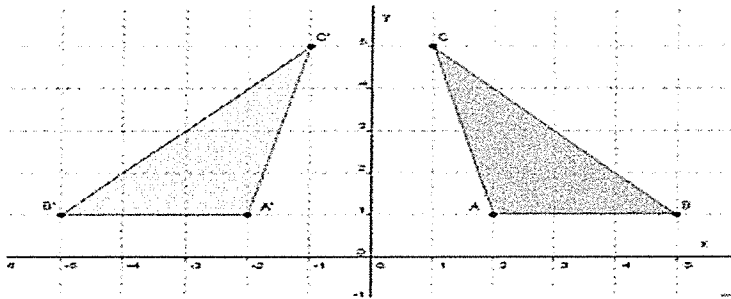
11- Which represents a translation of the figure?



12- For each one of the polygons below, find how many lines of symmetry to they have and the angle of rotation



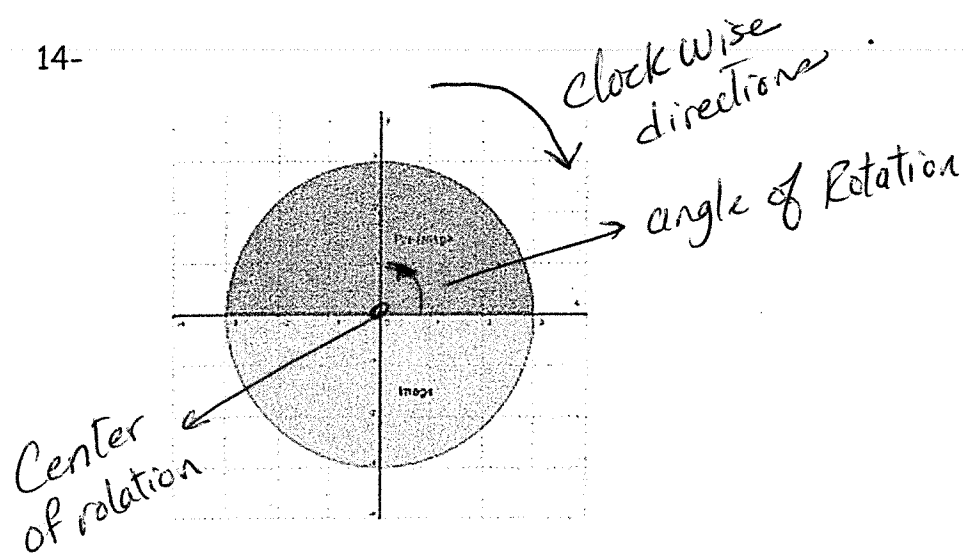
13-



Which of these describes the transformation of the triangle?

- a. Reflection over the x-axis
- ☒ b. Reflection over the y-axis
- c. Rotation of 90° clockwise about the origin
- d. Rotation of 180° clockwise about the origin

14-



Which of these transformations could produce the image shown?

- a. dilation
- b. glide reflection
- ☒ c. rotation
- d. translation

Which figure has a line of symmetry and rotational symmetry?

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