



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Algebra and Geometry

Class: 7

Date: 18.07.20

Duration: 40 min

Worksheet Solution 56

Full Marks: 15

Rotation and Reflection

Choose the Correct options:

1. Identify the transformation from ABC to A'B'C'.

- (a) $(x+8, y+4)$
- (b) $(x-8, y-4)$
- (c) $(x+4, y+8)$
- (d) $(x-4, y-8)$

2. Identify the transformation from ABC to A'B'C'.

- (a) 90° clockwise rotation
- (b) 90° counter clockwise rotation
- (c) Reflection across the y-axis
- (d) **Reflection across the x-axis**

3. Identify the transformation from ABC to A'B'C'.

- (a) Translation
- (b) 90° clockwise rotation
- (c) 90° counterclockwise rotation
- (d) **Reflection across the x-axis**

4. Identify the transformation from ABCD to A'B'C'D'.

- (a) **Translation**
- (b) Reflection across the y-axis
- (c) Reflection across the x-axis
- (d) 90° counter clockwise Rotation

5. Identify the transformation from C to D.

- (a) **90° Counter Clockwise Rotation**
- (b) 180° Rotation
- (c) 270° Counter clockwise Rotation
- (d) 360° Rotation

6. Identify the transformation from B to A.

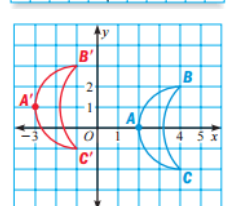
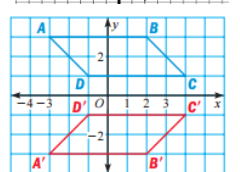
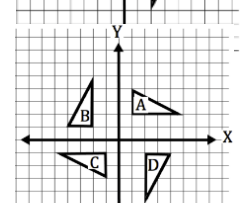
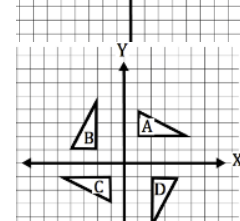
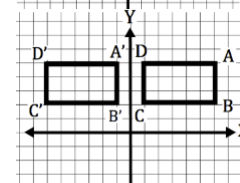
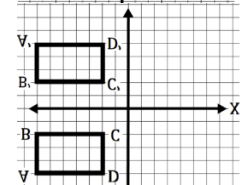
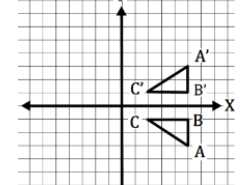
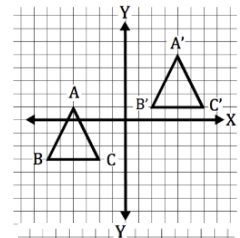
- (a) 90° Counter Clockwise Rotation
- (b) 180° Rotation
- (c) **270° Counter clockwise Rotation**
- (d) 360° Rotation

7. Identify the transformation.

- (a) Reflection across y axis
- (b) **Reflection across x-axis**
- (c) 180° Rotation
- (d) Translation 2 units down

8. Identify the transformation.

- (a) Reflection across y-axis
- (b) 90° Rotation counter clockwise
- (c) **Translation 5 units left, 1 unit up.**
- (d) Translation 5 units right, 1 unit down



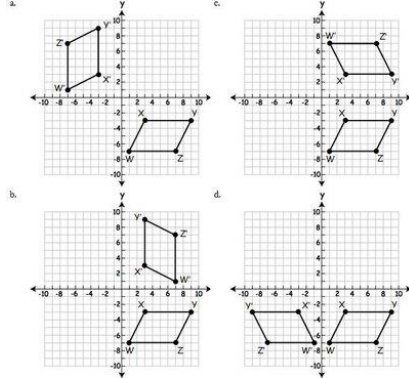
9. Find K'.

- (a) (4, 1)
- (b) (-1, -4)
- (c) (1, -4)
- (d) (1, 4)**

10. How is triangle ABC being translated to triangle A'B'C'?

- (a) up 3, left 8
- (b) up 9, left 4
- (c) down 3, right 8
- (d) down 9, right 4**

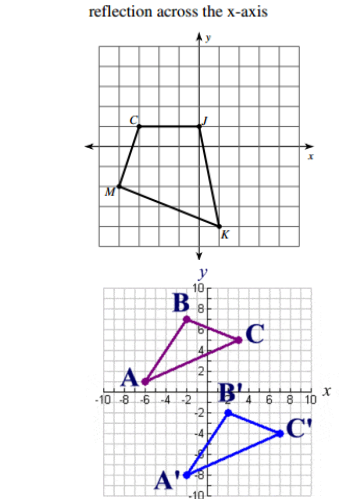
11. Which answer shows a reflection across the x-axis?



- (a) A
- (b) B
- (c) C**
- (d) D

12. Triangle ABC is going to be translated. Where would A' position be at, if the translation was $(x,y) \rightarrow (x+3, y-2)$?

- (a) (-1,3)
- (b) (5,3)**
- (c) (5,8)
- (d) (3,5)

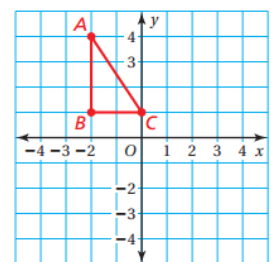
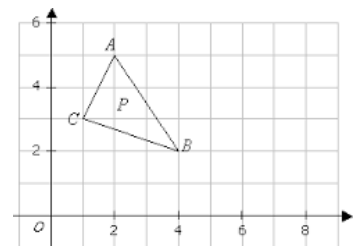


13. A type of transformation where a figure is “flipped” over a line of symmetry. A reflection produces a mirror image of a figure.

- (a) Rotation
- (b) Translation
- (c) Dilation
- (d) reflection**

14. Reflect the figure across the y-axis. What are the coordinates of A'?

- (a) (-2, -4)
- (b) (2, 4)**
- (c) (-2, 4)
- (d) (2, -4)



15. Name A Prime after a translation of $(x + 5, y - 2)$ if A Pre-Image is (-3, 2)

- (a) (8, 0)
- (b) (2, 0)**
- (c) (2, 4)
- (d) (8, 4)