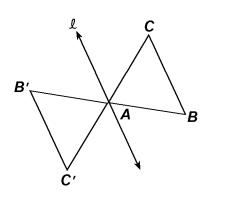
## Name: CC Geometry

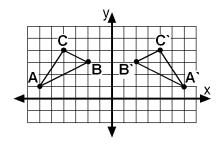
## Intro to Transformations Homework

The transformation of  $\triangle ABC$  to  $\triangle AB'C'$  is shown in 4) 1) the accompanying diagram.



This transformation is an example of a\_

- A) line reflection inline *l*
- B) dilation
- C) translation
- D) rotation about point A
- 2) In the accompanying diagram,  $\Delta A'B'C'$  is the image of  $\triangle ABC$ .



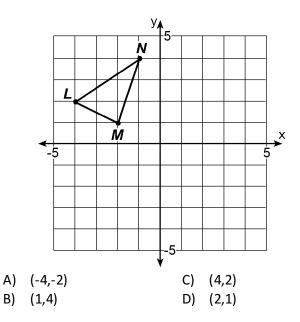
Which type of transformation is shown in the illustration?

- A) line reflection
- C) rotation B) dilation
  - D) translation
- If a translation maps point A(-3,1) to point A'(5,5), 3) the translation can be represented by
  - A) (x + 8, y + 6)C) (x+2,y+6)

B) 
$$(x + 2, y + 4)$$
 D)  $(x + 8, y + 4)$ 

What type of transformation is represented by the illustration below?

- A) translation
- C) dilation
- B) rotation
- D) reflection
- 5) If a point in quadrant IV is reflected in the y-axis, its image will lie in quadrant
  - A) / C) ///
  - B) // D) *IV*
- 6) If  $\triangle LNM$  is reflected across the y-axis, what will be the coordinates of point L', the image of point L?



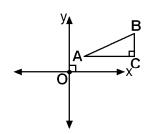
A rotation of a figure can be considered

- A) a mirror image of the figure
- B) a slide of the figure

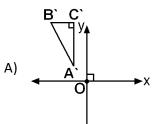
7)

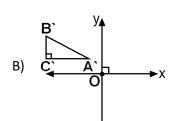
- C) an enlargement or a reduction of the figure
- D) a turning of the figure about some fixed point

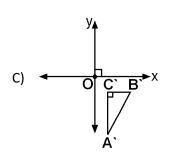
 In the accompanying diagram, △ABC is a right triangle.

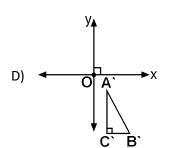


Which diagram below represents the image of  $\triangle$ ABC when rotated 90° counterclockwise about the origin?

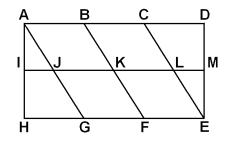






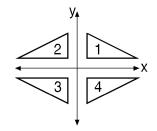


- 9) Under what type of transformation can the image be a different size than the original figure?
  - A) rotation C) translation
  - B) reflection D) dilation
- 10) The translation  $(x,y) \rightarrow (x 2, y + 3)$  maps the point (7,2) onto the point whose coordinates are
  - A) (5,5) C) (-14,6)
  - B) (5,-1) D) (9,5)
- 11) In the accompanying diagram, K is the image of A after a translation.



Under the same translation, which point is the image of J?

12) In the accompanying diagram, which triangle is the image of  $\Delta 2$  after a reflection in the x-axis?



- 1) D 2) A 3) D 4) C 5) C
- 6) C 7) D 8) A 9) D 10) A

11) F

12) 3