

Georgia Department of Education
Georgia Standards of Excellence Framework
GSE Grade 6 Mathematics • Unit 7

7. The points (1, 3), (-1, 5), (-3, 3), and (4, -4) have been graphed on the coordinate plane. Reflect each point across the x -axis. What are the coordinates of the reflected points?

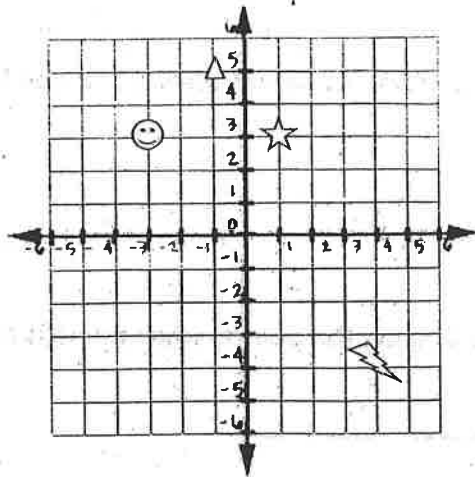
When the star (1, 3) is reflected across the x -axis, the new point is located at _____.

When the triangle (-1, 5) is reflected across the x -axis, the new point is located at _____.

When the smiley face (-3, 3) is reflected across the x -axis, the new point is located at _____.

When the lightning bolt (4, -4) is reflected across the x -axis, the new point is located at _____.

What similarities do you notice between the coordinates of the original point and the reflected point?



8. The points (1, 3), (-1, 5), (-3, 3), and (4, -4) have been graphed on the coordinate plane. Reflect each point across the y -axis. What are the coordinates of the reflected points?

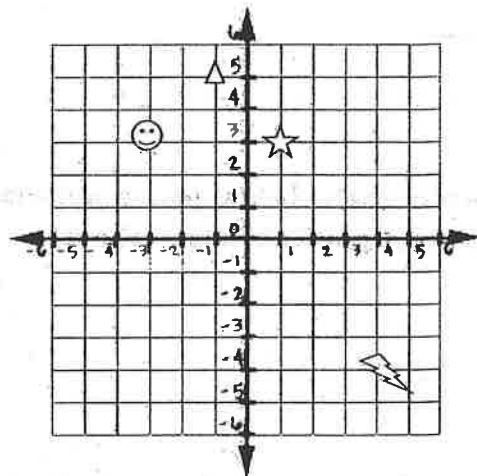
When the star (1, 3) is reflected across the y -axis, the new point is located at _____.

When the triangle (-1, 5) is reflected across the y -axis, the new point is located at _____.

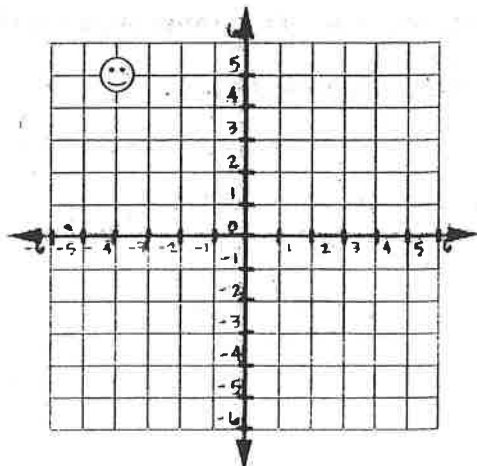
When the smiley face (-3, 3) is reflected across the y -axis, the new point is located at _____.

When the lightning bolt (4, -4) is reflected across the y -axis, the new point is located at _____.

What similarities do you notice between the coordinates of the original point and the reflected point?



9. The smiley face, located at point (-4, 5), has been reflected across the y -axis. The new location of the smiley face is (4, 5). What is the distance between (-4, 5) and (4, 5)? Write a number sentence using the distance from the y -axis to help justify your answer.



Reflecting Points on a Four Quadrant Coordinate Grid

Name: _____ Date: _____ Period: _____

1. Using the coordinates below, please plot and label each ordered pair with the corresponding letter.

A (1, 1)

B (4, 1)

C (4, 3)

2. When you connect the points, what shape is made?

3. What is the length of $\overline{AB}$? _____

4. What is length of $\overline{BC}$? _____

5. Reflect each of the three points across the **y-axis**.

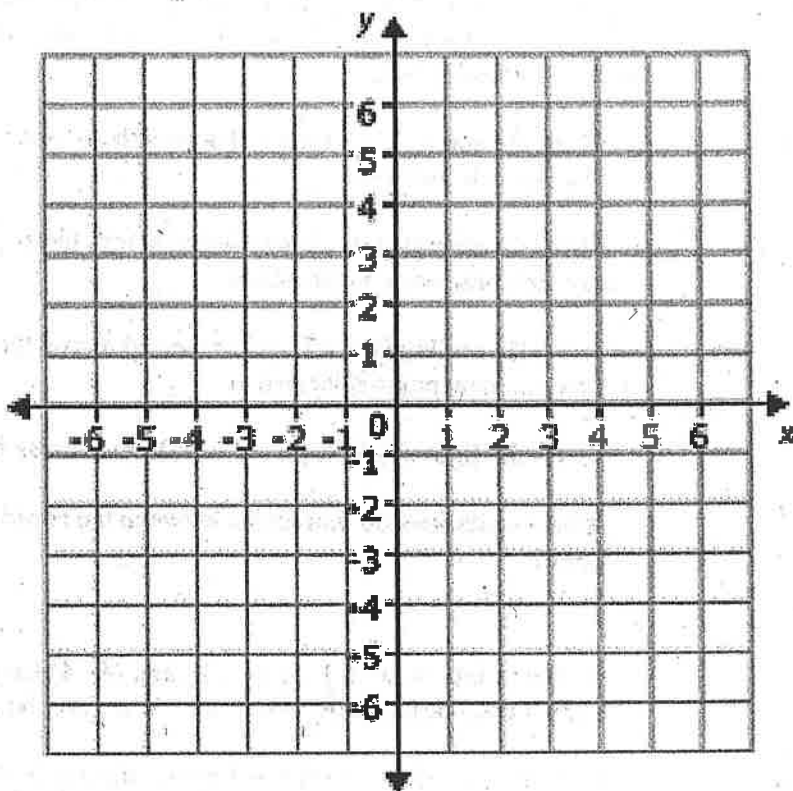
Identify the coordinates of the reflected points and

label with corresponding letter.

A' _____

B' _____

C' _____



6. Using the coordinates below, please plot and label each ordered pair with the corresponding letter.

(Same as original coordinates above)

A (1, 1)

B (4, 1)

C (4, 3)

7. Reflect each of the three points across the **x-axis**.

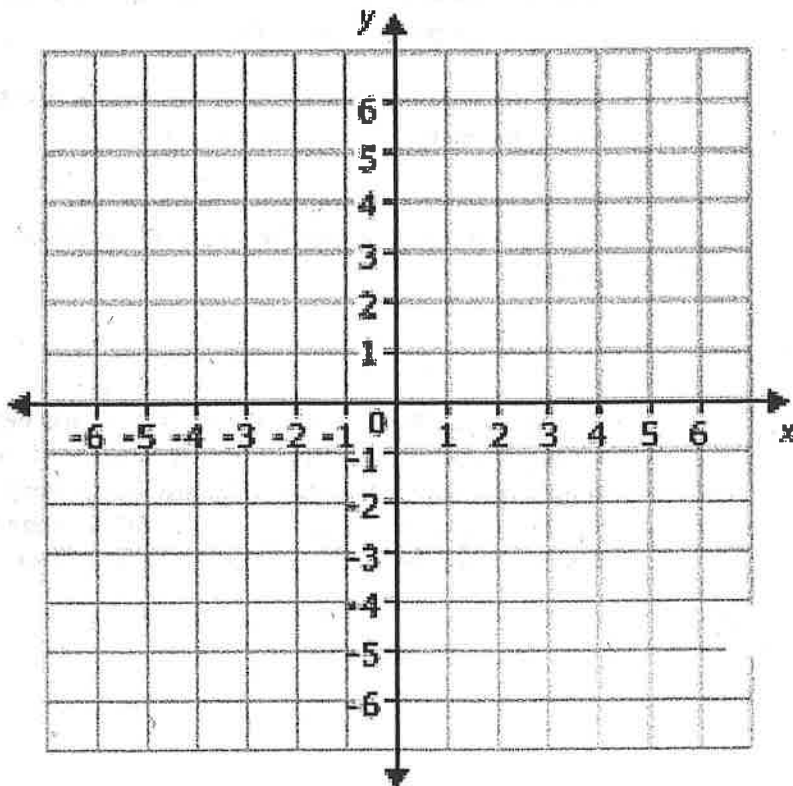
Identify the coordinates of the reflected points and

label with corresponding letter.

A' _____

B' _____

C' _____



8. Using the coordinates below, please plot and label each ordered pair with the corresponding letter.

- A (-6, 6)
- B (-2, 6)
- C (-2, 3)
- D (-6, 3)

9. When you connect the points, what shape is made?

10. What is the length of $\overline{AB}$? _____

11. What is length of $\overline{BC}$? _____

12. Reflect each of the four points across the **y-axis**.

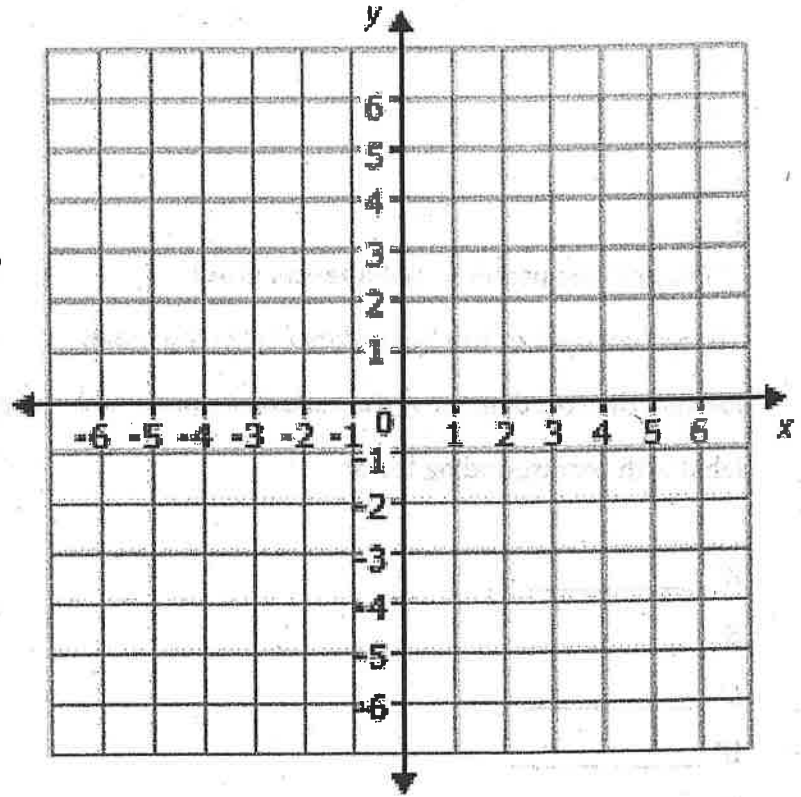
Identify the coordinates of the reflected points and label with corresponding letter.

A' _____

B' _____

C' _____

D' _____



13. Using the coordinates below, please plot and label each ordered pair with the corresponding letter.
(same as original coordinates above)

- A (-6, 6)
- B (-2, 6)
- C (-2, 3)
- D (-6, 3)

14. Reflect each of the four points across the **x-axis**.

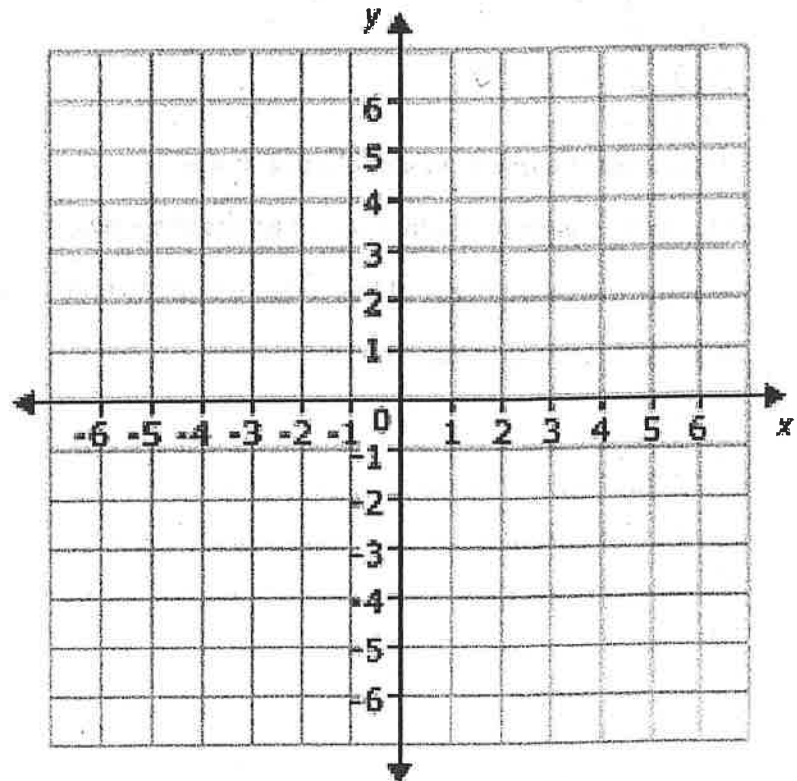
Identify the coordinates of the reflected points and label with corresponding letter.

A' _____

B' _____

C' _____

D' _____



15. Using the coordinates below, please plot and label each ordered pair with the corresponding letter.

A (-5, -1)

B (-4, -2)

C (-3, -1)

D (-2, -2)

E (-4, -3)

****Connect the points in alphabetical order.**

16. Reflect each of the five points across the **y-axis**.

Identify the coordinates of the reflected points and label with corresponding letter.

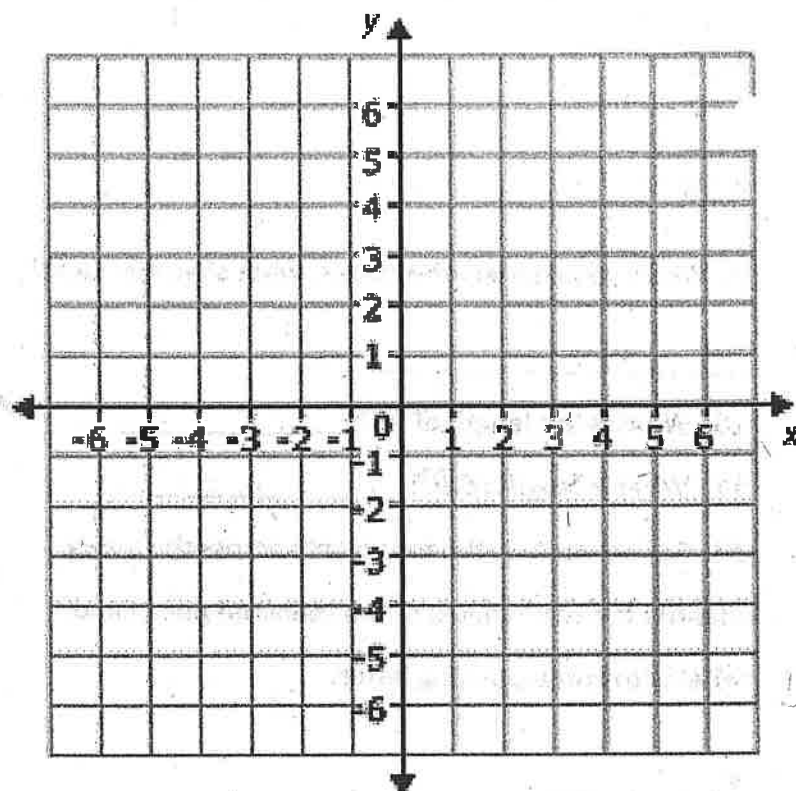
A' _____

B' _____

C' _____

D' _____

E' _____



17. Using the coordinates below, please plot and label each ordered pair with the corresponding letter.

A (-5, -1)

B (-4, -2)

C (-3, -1)

D (-2, -2)

E (-4, -3)

****Connect the points in alphabetical order.**

18. Reflect each of the five points across the **x-axis**.

Identify the coordinates of the reflected points and label with corresponding letter.

A' _____

B' _____

C' _____

D' _____

E' _____

