

# 3 1 coordinate rules for reflections cnusd k12

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### 3:1 Coordinate Rules for Reflections (CNUSD K-12)

#### Understanding Coordinate Reflections

When reflecting a shape over a coordinate axis, the coordinates of each point change according to specific rules. These rules help preserve the original shape and orientation while creating its mirror image.

#### Rule 1: Reflection Over the x-axis

- For any point  $(x, y)$ , its reflection over the x-axis has coordinates  $(x, -y)$ .
- This means that the y-coordinate changes sign, flipping the point vertically.

#### Questions:

- What are the coordinates of the reflection of point  $A(3, 5)$  over the x-axis?
- Answer:  $A'(-3, -5)$

#### Rule 2: Reflection Over the y-axis

- For any point  $(x, y)$ , its reflection over the y-axis has coordinates  $(-x, y)$ .
- This means that the x-coordinate changes sign, flipping the point horizontally.

#### Questions:

- What are the coordinates of the reflection of point B(-4, 2) over the y-axis?
- Answer: B'(4, 2)

### Rule 3: Reflection Over Both Axes

- If a point is reflected over both the x-axis and y-axis, its coordinates change as follows:  $(x, y) \rightarrow (-x, -y)$ .
- This means that both coordinates change sign, creating a point that is diagonally opposite to the original point.

### Questions:

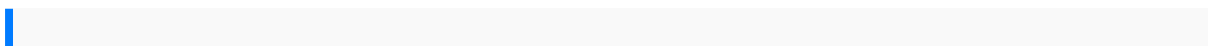
- What are the coordinates of the reflection of point C(2, -3) over both the x-axis and y-axis?
- Answer: C'(-2, 3)

### Applications of Coordinate Reflections

These rules are essential for transformations in geometry and computer graphics. They allow for the creation of symmetrical patterns, rotations, and other transformations.

### Remember:

- When reflecting over the x-axis, the y-coordinate changes sign.
- When reflecting over the y-axis, the x-coordinate changes sign.
- When reflecting over both axes, both coordinates change sign.



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