The four coordinate quadrants

6 questions | 8 marks

Equivalent correct methods earn the corresponding marks.

1. Name the quadrant containing (2,3). [1 mark]

Both coordinates are positive: right and up.

Answer: Quadrant I

2. Name the quadrant containing (−4,1). [1 mark]

Negative x and positive y mean left and up.

Answer: Quadrant II

3. Name the quadrant containing (−2,−3). [1 mark]

Both coordinates are negative: left and down.

Answer: Quadrant III

4. Name the quadrant containing (3,−4). [1 mark]

Positive x and negative y mean right and down.

Answer: Quadrant IV

5. Describe the location of (0,−2). State whether it lies in a quadrant. [2 marks]

x = 0 places the point on the y-axis.

Answer: On the y-axis, 2 units below the origin; no quadrant.

6. Leo says (−5,0) is in Quadrant III because it is to the left. Explain the error. [2 marks]

The y-coordinate is zero, so the point is on a boundary.

Quadrant III requires both x and y to be negative.

Answer: It is on the x-axis, not in Quadrant III.