Coordinate Plane Paper for Algebra: Plotting Practice with Labeled Axes

Original tasks 1, 2, 3, 4 / complete keys

Task 1

Plot (4, 3) and state its quadrant.

Answer: The point is 4 units right and 3 units up from the origin, in Quadrant I.

Reason: Both coordinates are positive, so the point lies in the upper-right region.

Check: Count 4 grid lines right and 3 grid lines up from the origin; confirm the label reads (4, 3).

Task 2

Plot (−2, −5) and state its quadrant.

Answer: The point is 2 units left and 5 units down from the origin, in Quadrant III.

Reason: Both coordinates are negative, so the point lies in the lower-left region.

Check: Count 2 grid lines left and 5 grid lines down; confirm the label reads (−2, −5).

Task 3

Plot (0, 6) and state whether it lies in a quadrant.

Answer: The point is 6 units up from the origin on the y-axis. It does not lie in a quadrant.

Reason: The x-value is zero, so the point is on the y-axis rather than inside a quadrant region.

Check: Confirm the point is on the vertical axis and the label reads (0, 6).

Task 4

Plot (5, −1) and its reflection across the x-axis. State both ordered pairs.

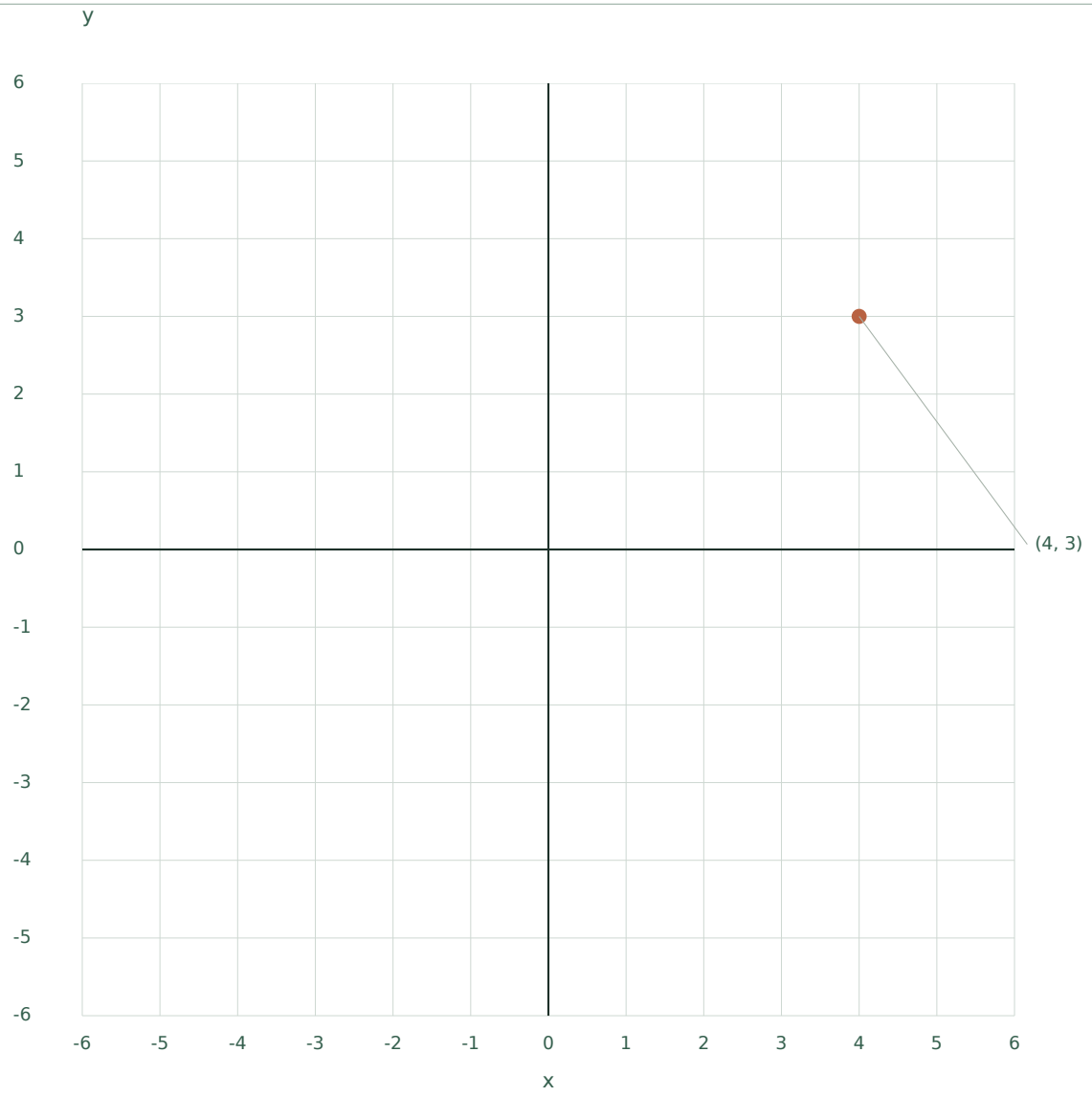
Answer: The original point is (5, −1). Its reflection across the x-axis is (5, 1).

Reason: Reflecting across the x-axis changes the sign of the y-value while keeping the x-value the same.

Check: Confirm the two points share the same vertical line and are equal distances above and below the x-axis.

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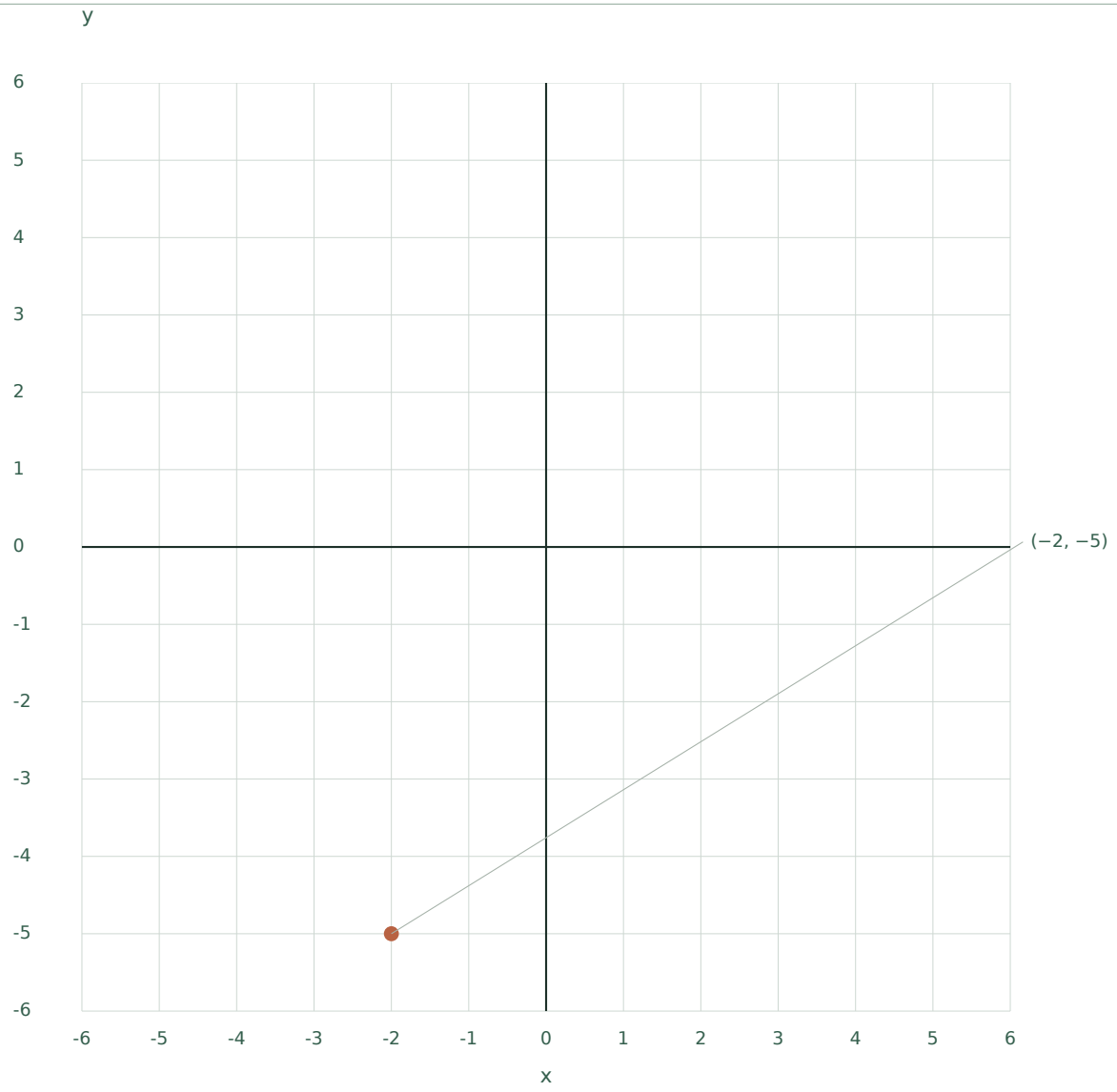
Answer key: (4, 3) in Quadrant I



Answer key: point (4, 3) plotted in Quadrant I. Coordinate labels sit outside the plot; thin grey leaders are annotations, not function curves.

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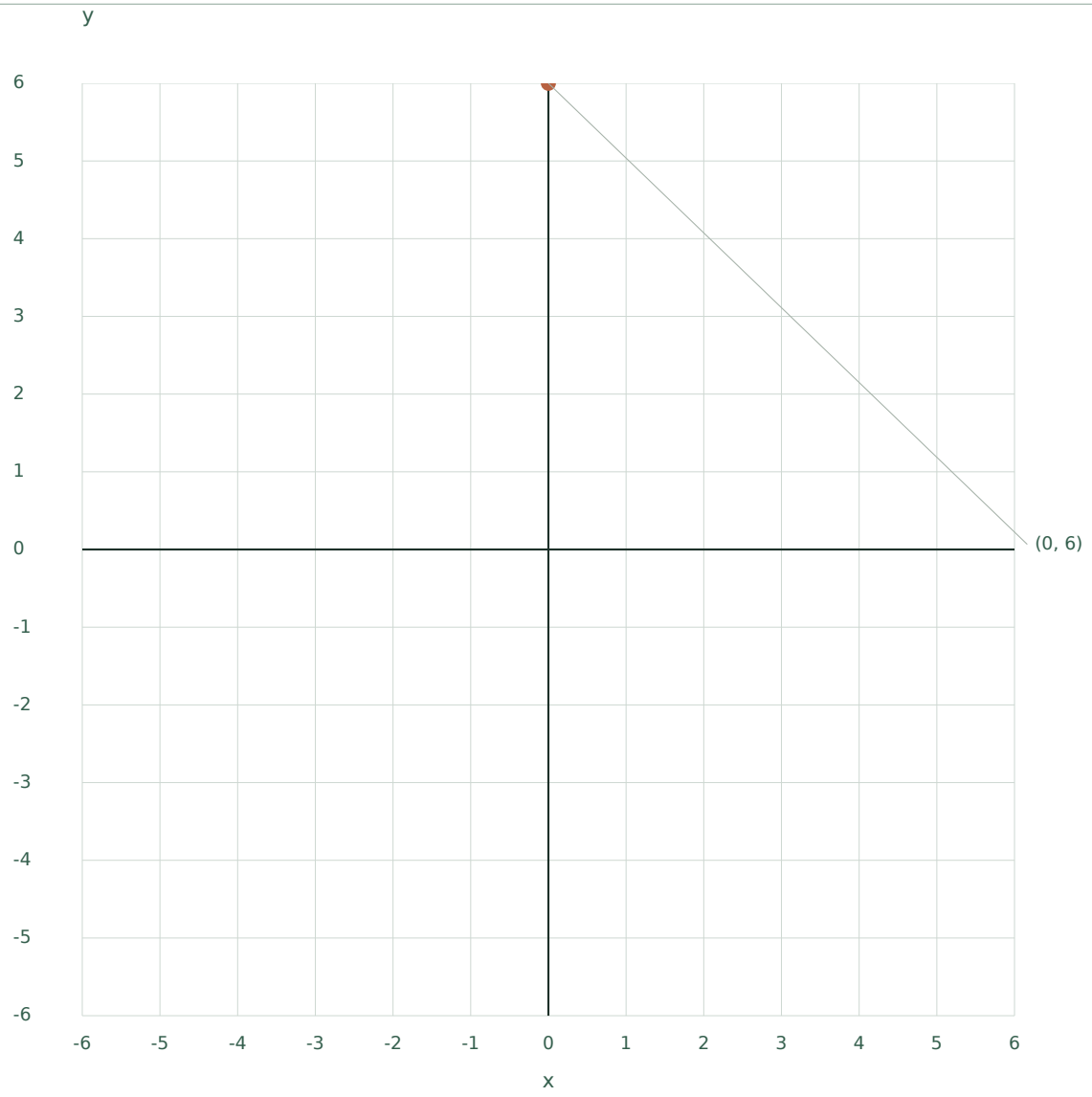
Answer key: (−2, −5) in Quadrant III



Answer key: point (−2, −5) plotted in Quadrant III. Coordinate labels sit outside the plot; thin grey leaders are annotations, not function curves.

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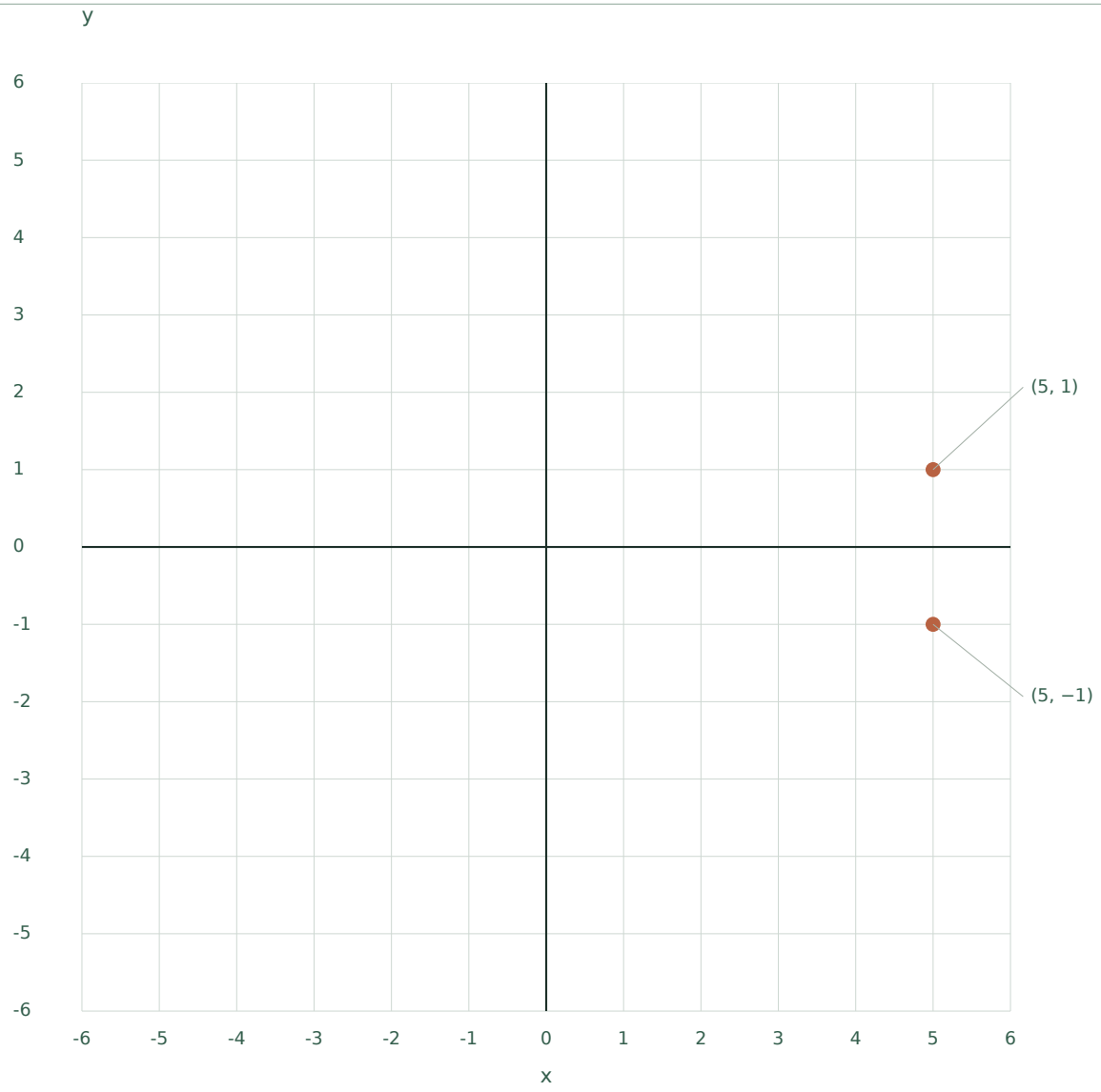
Answer key: (0, 6) on the y-axis, no quadrant



Answer key: point (0, 6) on the y-axis; it lies in no quadrant. Coordinate labels sit outside the plot; thin grey leaders are annotations, not function curves.

Coordinate Plane Paper for Algebra: Plotting Practice with Labeled Axes

Answer key: (5, −1) and its x-axis reflection (5, 1)



Answer key: (5, −1) and its reflection (5, 1) across the x-axis. Coordinate labels sit outside the plot; thin grey leaders are annotations, not function curves.

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Source rubric / reflection

- [ ] The point is placed at the correct intersection of grid lines for the given ordered pair.
- [ ] The label matches the plotted point and is legible.
- [ ] The quadrant or axis location is stated correctly when asked.
- [ ] The label placement follows the stated convention, though alternative legible styles are accepted.
- [ ] The student can explain the horizontal and vertical moves from the origin.

Reflection: What did you check, what did you change, and what will you try next?