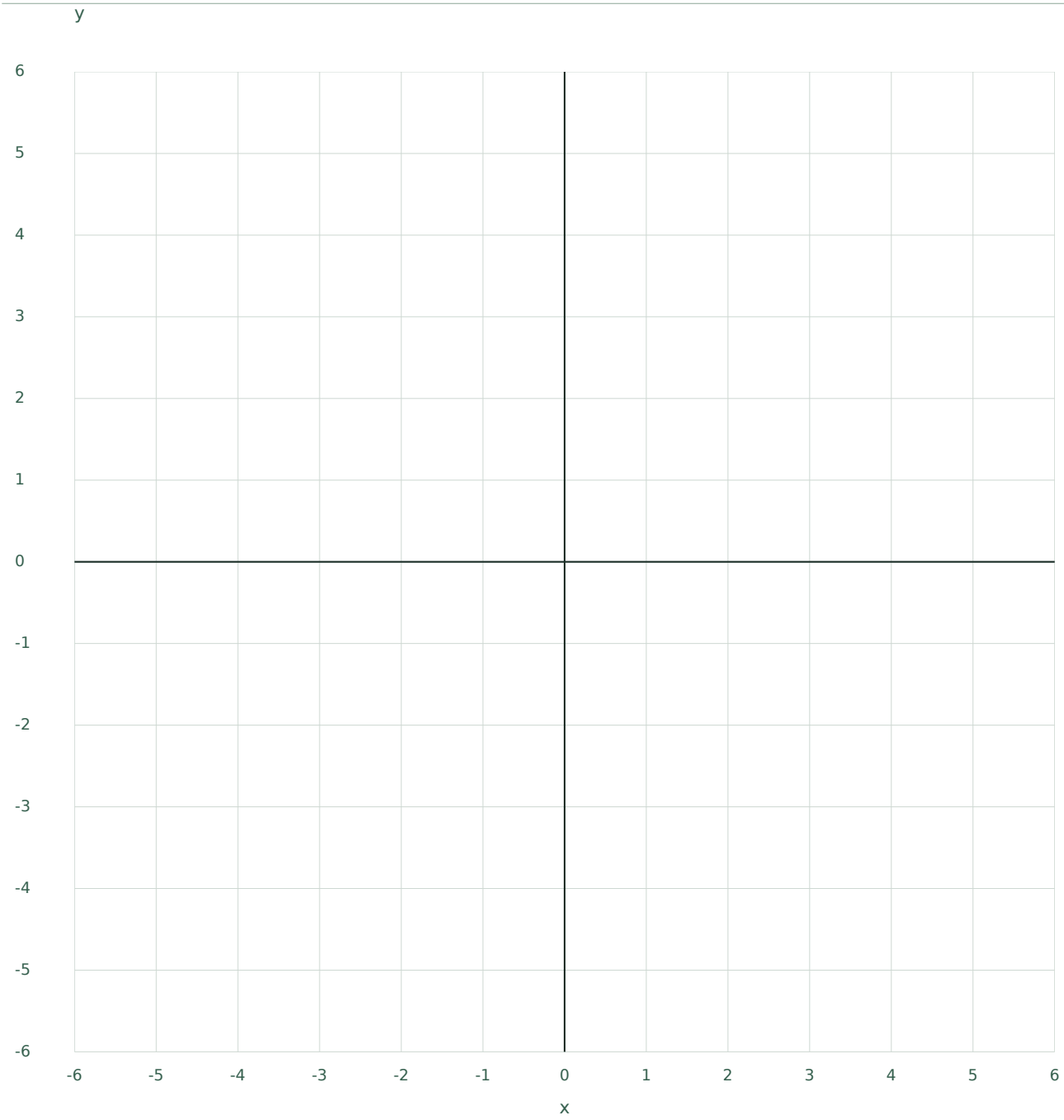
Farm Tractor Coordinate Picture: Plot Ordered Pairs Across Quadrants

Printable Coordinate Grid with Labeled Axes and Origin



Blank grid for plotting. 1 square = 1 unit (hypothetical example scale).

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Plotting-Instructions Panel

Five-step plotting convention panel.

1. Mark the origin (0, 0) and label the axes x and y.

2. Read the first coordinate; move that many units right (positive) or left (negative) from the origin.

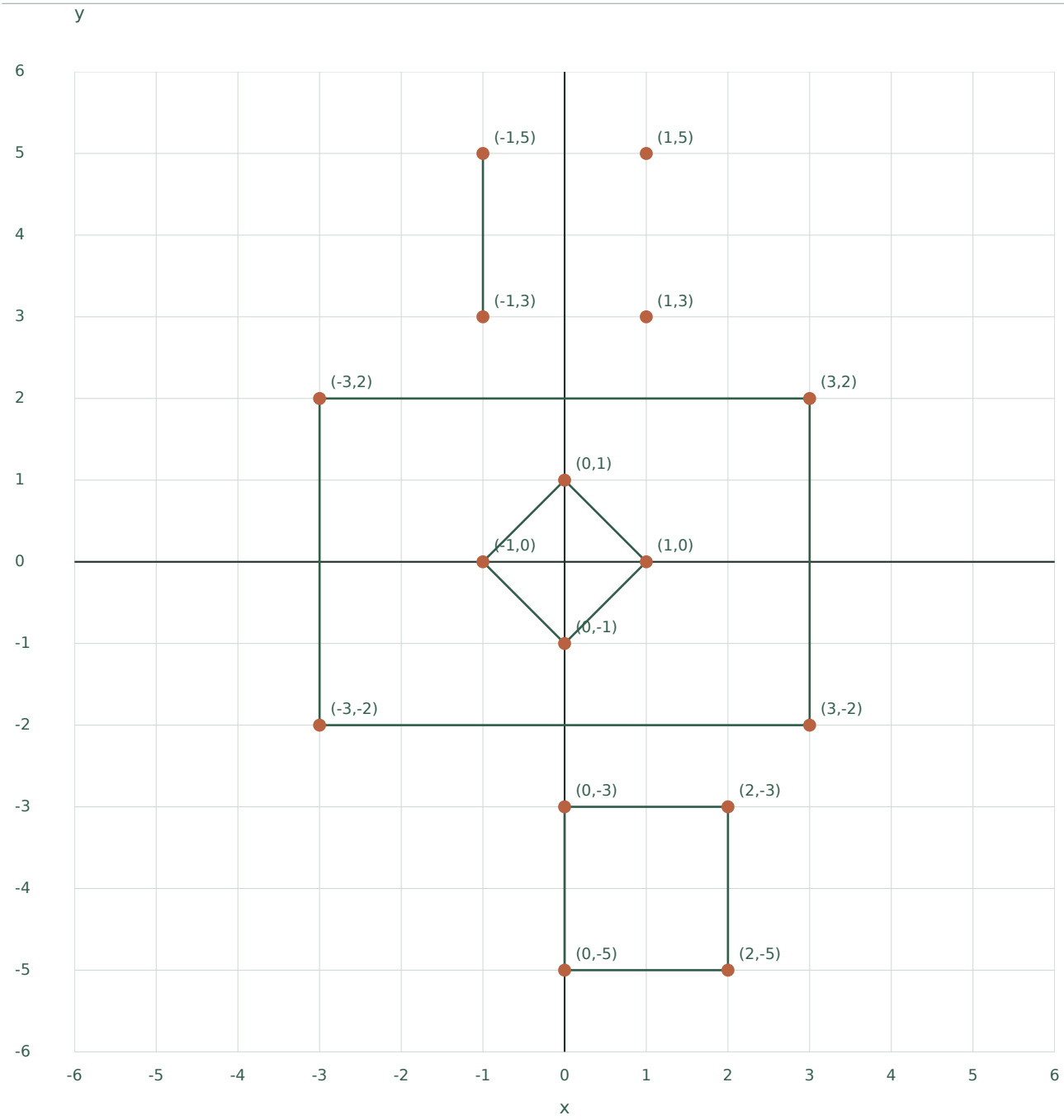
3. Read the second coordinate; move that many units up (positive) or down (negative) from your current position.

4. Mark the point with a small dot and label it lightly with its ordered pair.

5. Repeat for each pair in the list before connecting any points.

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Completed Answer-Key Tractor Diagram



Completed tractor answer key. 1 square = 1 unit (hypothetical example scale).

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Worked Example Answer

Worked example answer.

The points form a rectangle centered on the origin. The horizontal sides are 4 units long (from x = -2 to x = 2), and the vertical sides are 2 units long (from y = -1 to y = 1). The rectangle crosses both axes.

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Practice Task Answers, Reasoning, and Checks

Answers, reasoning, and check methods for all four tasks.

Task 1 answer: The points form a diamond (a square rotated 45 degrees). Its width from left to right is 2 grid units, from x = -1 to x = 1.

Task 1 reasoning: Each point lies one unit from the origin along an axis. Connecting them in order creates four equal sides. The leftmost point is (-1, 0) and the rightmost is (1, 0), so the horizontal width is 2 units.

Task 1 check: Verify that each point is exactly one unit from the origin along an axis. Count squares between (-1, 0) and (1, 0) to confirm the width is 2 units.

Task 2 answer: The body is a rectangle 6 units long and 4 units high. It crosses both axes because it extends from x = -3 to x = 3 and from y = -2 to y = 2.

Task 2 reasoning: The horizontal distance between x = -3 and x = 3 is 6 units. The vertical distance between y = -2 and y = 2 is 4 units. Since the rectangle includes positive and negative coordinates, it crosses both axes.

Task 2 check: Count squares along the top edge from (-3, 2) to (3, 2) to confirm 6 units. Count squares along the left edge from (-3, 2) to (-3, -2) to confirm 4 units. Check that the origin lies inside the rectangle.

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Practice Task Answers 3 and 4

Answers, reasoning, and checks for tasks 3 and 4.

Task 3 answer: Both segments are vertical and parallel. They are 2 grid units apart horizontally, from x = -1 to x = 1.

Task 3 reasoning: Each segment has the same x-coordinate at both endpoints, so each is vertical. Vertical lines are parallel. The horizontal distance between x = -1 and x = 1 is 2 units.

Task 3 check: Confirm that each pair shares an x-coordinate. Count squares between the two vertical lines at the same y-level to verify the 2-unit separation.

Task 4 answer: The points form a rectangle 2 units wide and 2 units high, so its area is 4 square grid units.

Task 4 reasoning: The x-coordinates range from 0 to 2, giving a width of 2 units. The y-coordinates range from -5 to -3, giving a height of 2 units. A 2-by-2 rectangle has area 4 square units.

Task 4 check: Count squares along the top edge from (0, -3) to (2, -3) to confirm 2 units. Count squares along the left edge from (0, -3) to (0, -5) to confirm 2 units. Multiply width by height to check the area.

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Rubric

Rubric criteria.

1. All ordered pairs are plotted with correct signs and positions.

2. Points are labeled lightly and consistently.

3. Segments connect the correct points in the given order.

4. Closed shapes close properly; wheels are separate from the body.

5. The scale is stated and used consistently.

6. Valid alternatives are accepted if the plotting convention is stated and followed, including handwritten labels and sketch-style connections.