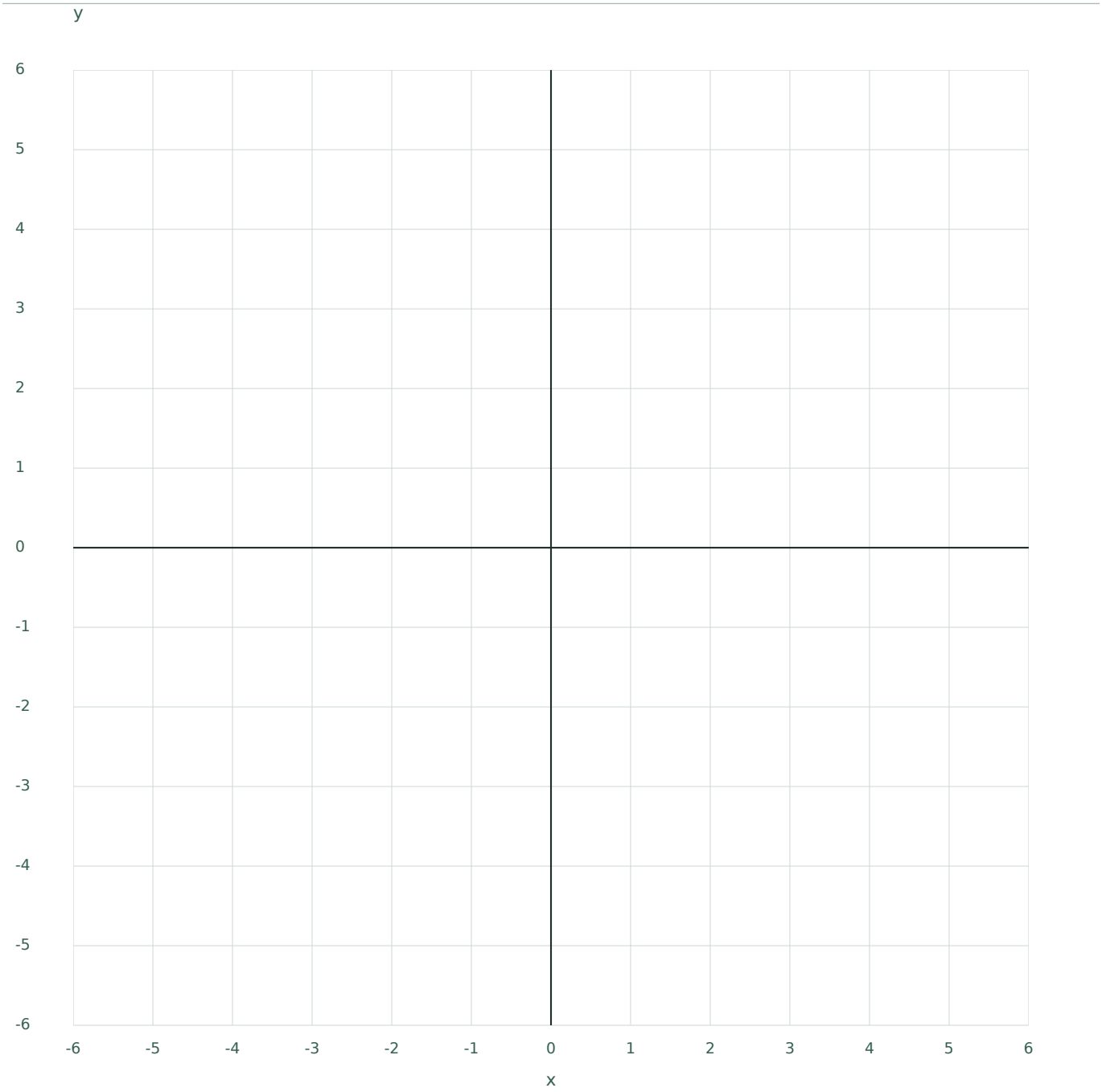
Farm Tractor Coordinate Picture: Plot Ordered Pairs Across Quadrants

Student Plotting Grid



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

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Worksheet Plotting Instructions

Plotting and building instructions.

Plotting: 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.

Building the tractor: 1. Plot every ordered pair from the list and label each dot. 2. Connect the body points in the given order to form a closed shape. 3. Connect the wheel points separately; each wheel should close on itself. 4. Draw the exhaust segment between its two endpoints. 5. Compare your completed picture to the answer-key description and check that all segments match.

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Four Practice Tasks

Four self-contained practice tasks.

Task 1: Plot and connect these points in order to form a small wheel: (1, 0), (0, 1), (-1, 0), (0, -1), and back to (1, 0). What shape is formed, and what is its width from left to right in grid units?

Task 2: A tractor body uses these corner points: (-3, 2), (3, 2), (3, -2), and (-3, -2). Plot them in order and connect them. What are the length and height of the body in grid units, and does the shape cross the axes?

Task 3: Plot the exhaust segment endpoints (-1, 3) and (-1, 5). Then plot a second segment from (1, 3) to (1, 5). Are the two segments parallel, and how far apart are they horizontally in grid units?

Task 4: Plot the points (0, -3), (2, -3), (2, -5), and (0, -5) in order and connect them to form a small wheel. What shape is formed, and what is its area in square grid units?

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Worked Example Prompt

Worked example prompt.

Worked example: Plot the points (2, 1), (-2, 1), (-2, -1), and (2, -1) in order, then connect them to form a closed shape. Describe the shape and state its side lengths in grid units.

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Original tasks 1, 2, 3 / blank responses

Task 1

Plot and connect these points in order to form a small wheel: (1, 0), (0, 1), (-1, 0), (0, -1), and back to (1, 0). What shape is formed, and what is its width from left to right in grid units?

Task 2

A tractor body uses these corner points: (-3, 2), (3, 2), (3, -2), and (-3, -2). Plot them in order and connect them. What are the length and height of the body in grid units, and does the shape cross the axes?

Task 3

Plot the exhaust segment endpoints (-1, 3) and (-1, 5). Then plot a second segment from (1, 3) to (1, 5). Are the two segments parallel, and how far apart are they horizontally in grid units?

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Original tasks 4 / blank responses

Task 4

Plot the points (0, -3), (2, -3), (2, -5), and (0, -5) in order and connect them to form a small wheel. What shape is formed, and what is its area in square grid units?