Spotting Inconsistent Systems by Graphing Parallel Lines

Original task 1 / independent drawing and calculation

Task 1

Graph y = x + 1 and y = x - 2 on the same grid. State whether the system is inconsistent and explain why.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Spotting Inconsistent Systems by Graphing Parallel Lines

Original task 2 / independent drawing and calculation

Task 2

Graph y = -2x + 3 and y = -2x - 1 on the same grid. State whether the system is inconsistent and explain why.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Spotting Inconsistent Systems by Graphing Parallel Lines

Original task 3 / independent drawing and calculation

Task 3

Graph y = 0.5x + 4 and y = 0.5x - 1. Measure the vertical gap at x = 0 and x = 2. Is the system inconsistent?

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Spotting Inconsistent Systems by Graphing Parallel Lines

Original task 4 / independent drawing and calculation

Task 4

A student graphs y = 4x - 2 and y = 4x + 5 and writes 'the lines are parallel, so there is one solution.' Identify the error and give the correct conclusion.

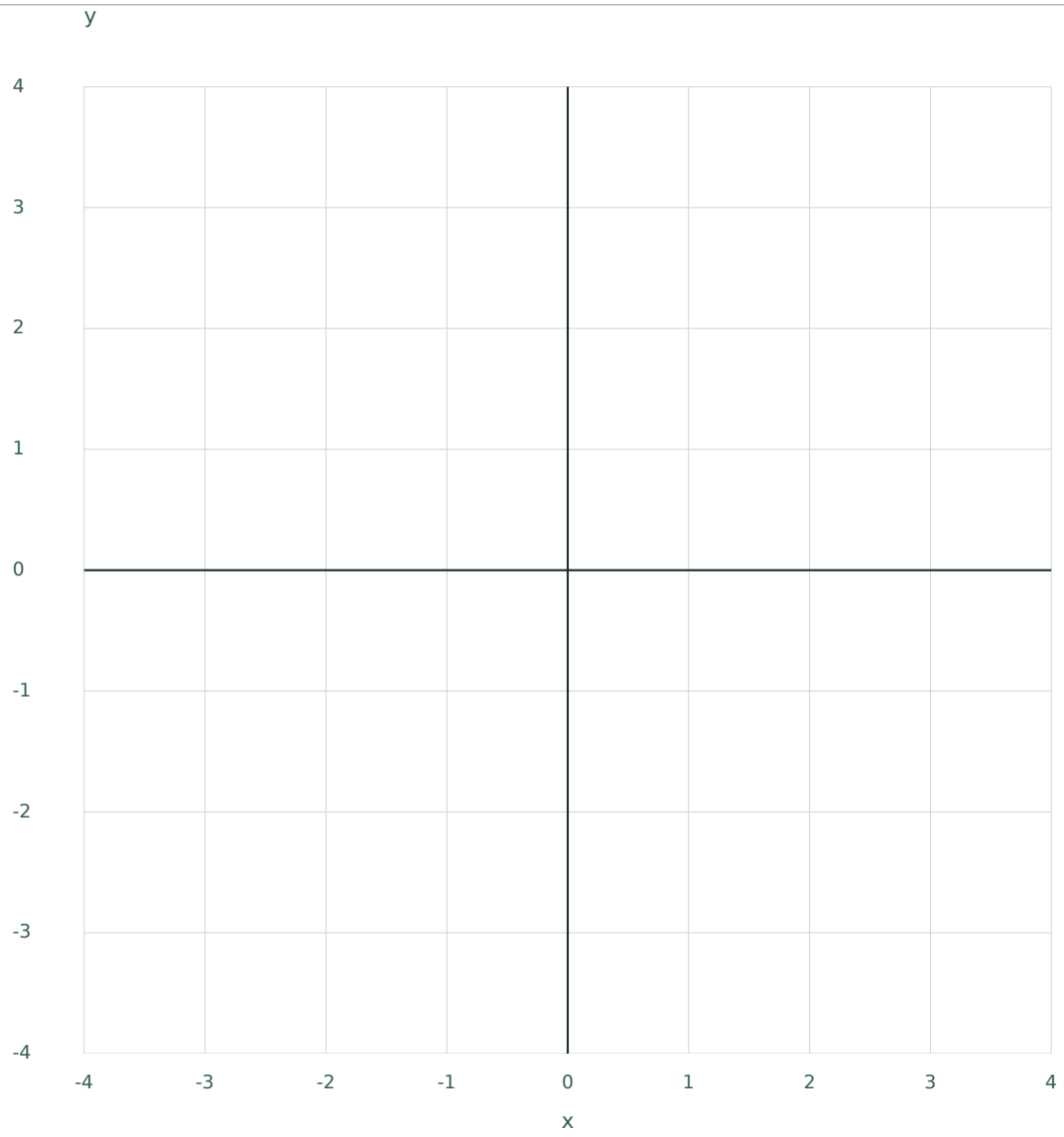
Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Full drawing sheet / reusable blank workspace

Reusable full drawing sheet for Tasks 1 to 4. Print another copy when needed. Keep all original task measurements; if a task specifies larger paper, use that paper size.

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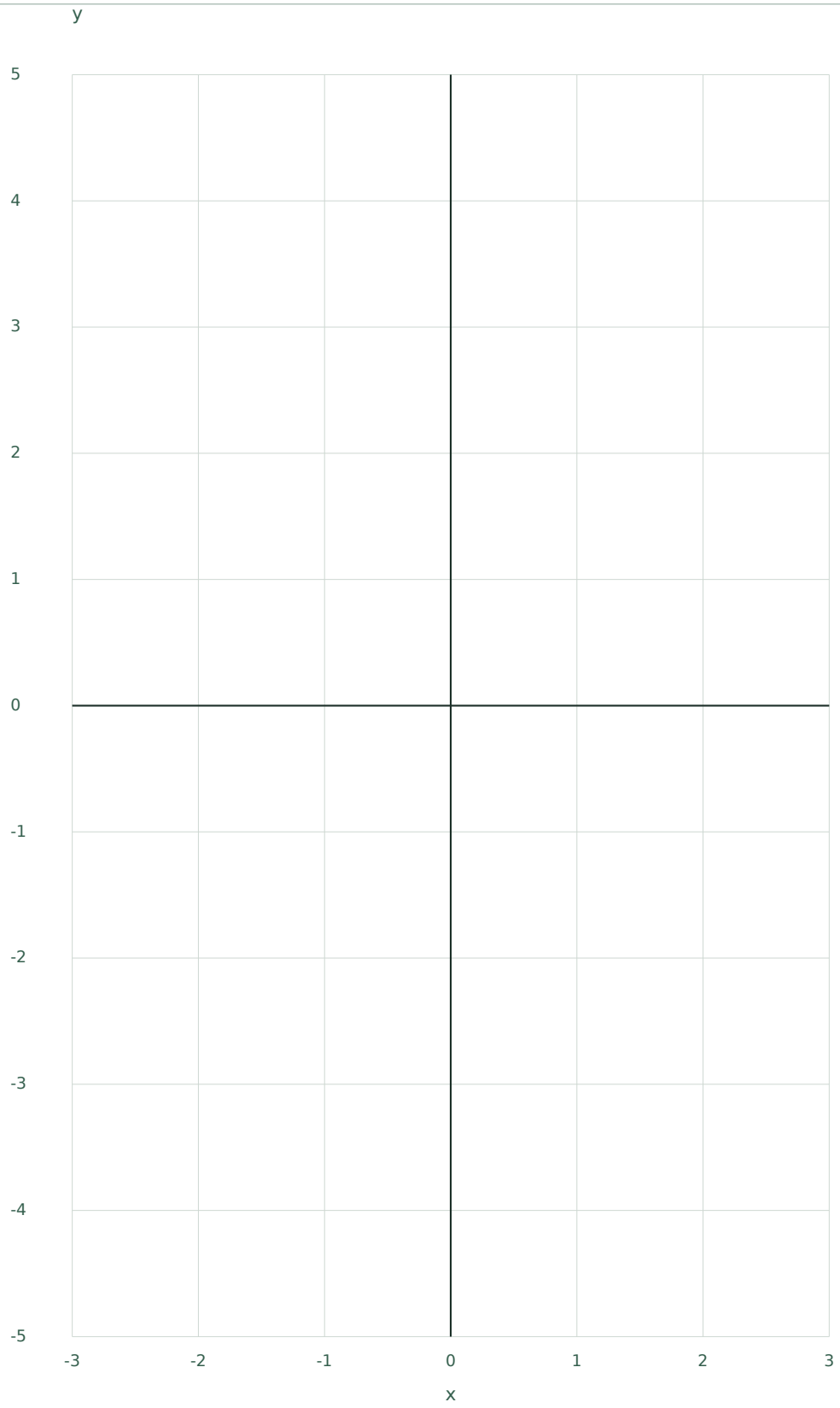
Blank grid for y = x + 1 and y = x - 2



Blank student grid for graphing both lines.

Spotting Inconsistent Systems by Graphing Parallel Lines

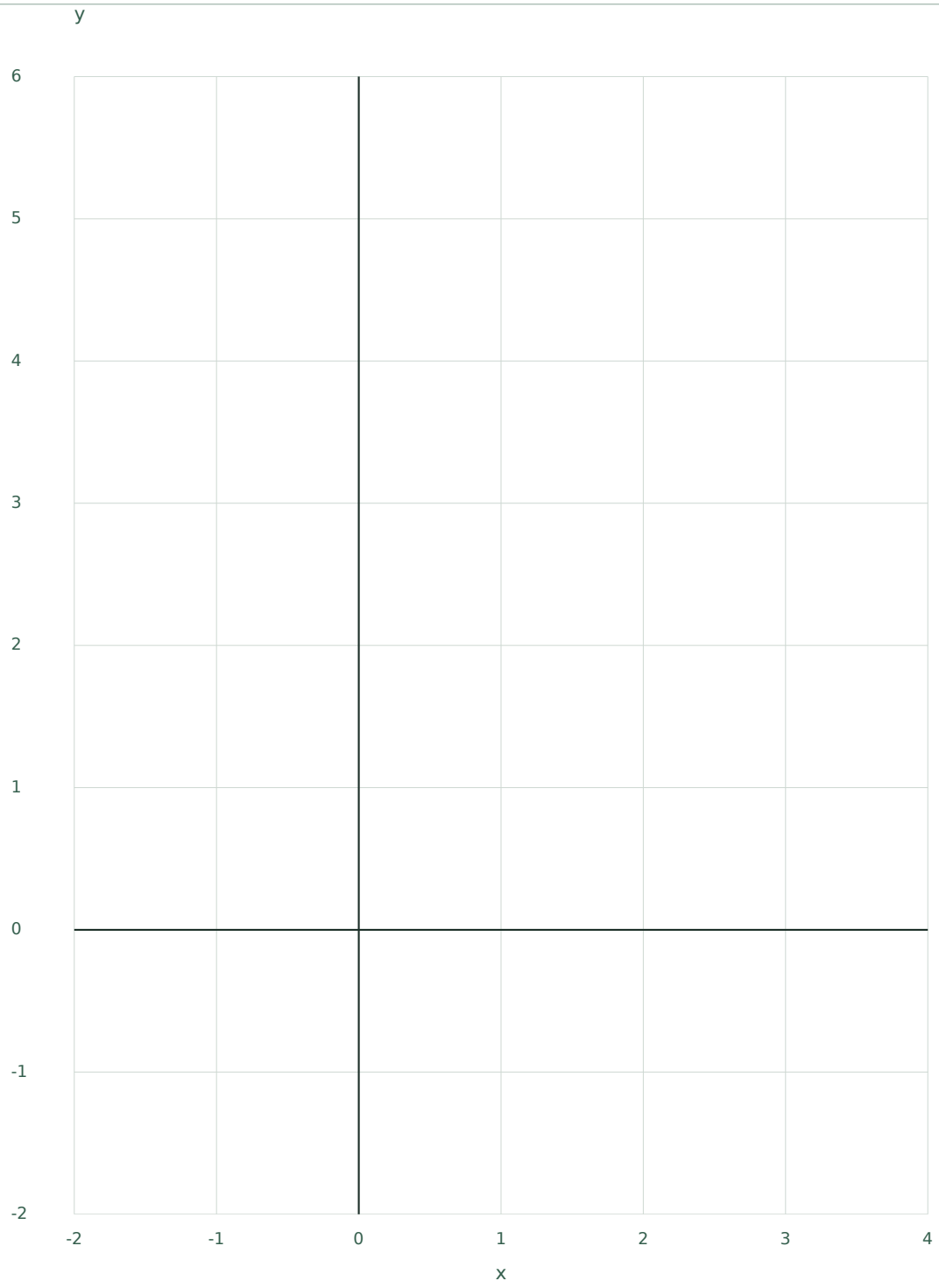
Blank grid for y = -2x + 3 and y = -2x - 1



Blank student grid for graphing both lines.

Spotting Inconsistent Systems by Graphing Parallel Lines

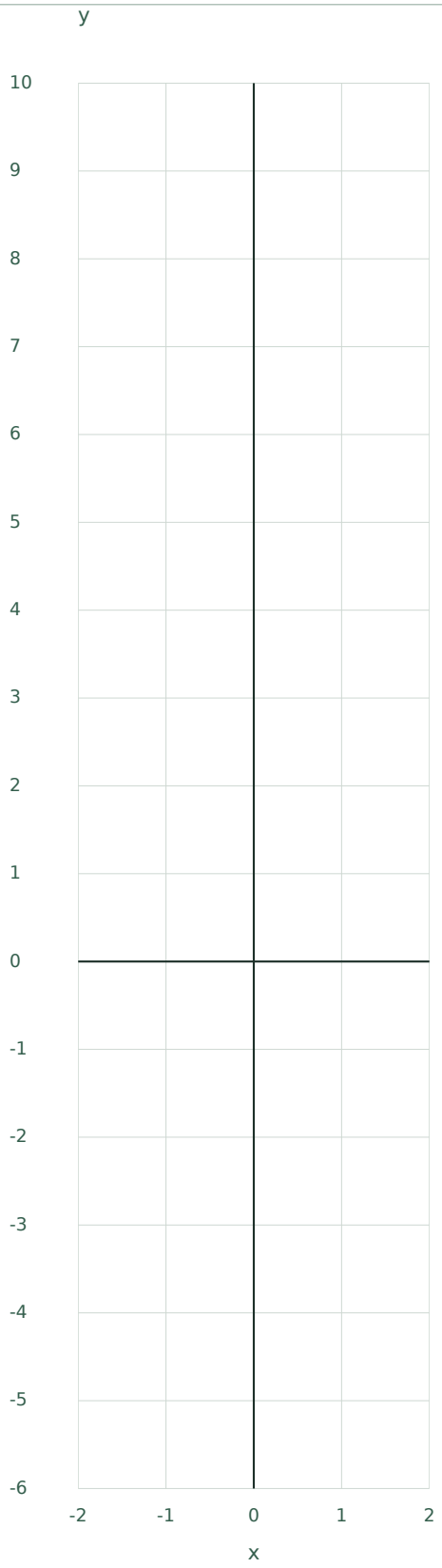
Blank grid for y = 0.5x + 4 and y = 0.5x - 1



Blank student grid for graphing both lines and measuring gaps.

Spotting Inconsistent Systems by Graphing Parallel Lines

Blank grid for y = 4x - 2 and y = 4x + 5



Blank student grid for graphing both lines.