Drawing Curved Graphs from Value Tables: A Practical Guide

Original task 1 / independent drawing and calculation

Task 1

Plot the curve y = 2^x for x from -2 to 2. Build a value table with x = -2, -1, 0, 1, 2. Use a grid where each square represents 1 unit on both axes. (Numerical values are hypothetical examples chosen for clarity.)

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.

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Original task 2 / independent drawing and calculation

Task 2

Plot the curve y = x + 1/x for x from 1 to 4. Build a value table with x = 1, 1.5, 2, 3, 4. Use a grid where each square represents 1 unit on both axes. (Numerical values are hypothetical examples chosen for clarity.)

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.

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Original task 3 / independent drawing and calculation

Task 3

Plot the curve y = 3^x for x from -1 to 2. Build a value table with x = -1, -0.5, 0, 0.5, 1, 2. Use a grid where each square represents 1 unit on both axes. (Numerical values are hypothetical examples chosen for clarity.)

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.

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Original task 4 / independent drawing and calculation

Task 4

Plot the curve y = x + 4/x for x from 1 to 4. Build a value table with x = 1, 1.5, 2, 3, 4. Use a grid where each square represents 1 unit on both axes. (Numerical values are hypothetical examples chosen for clarity.)

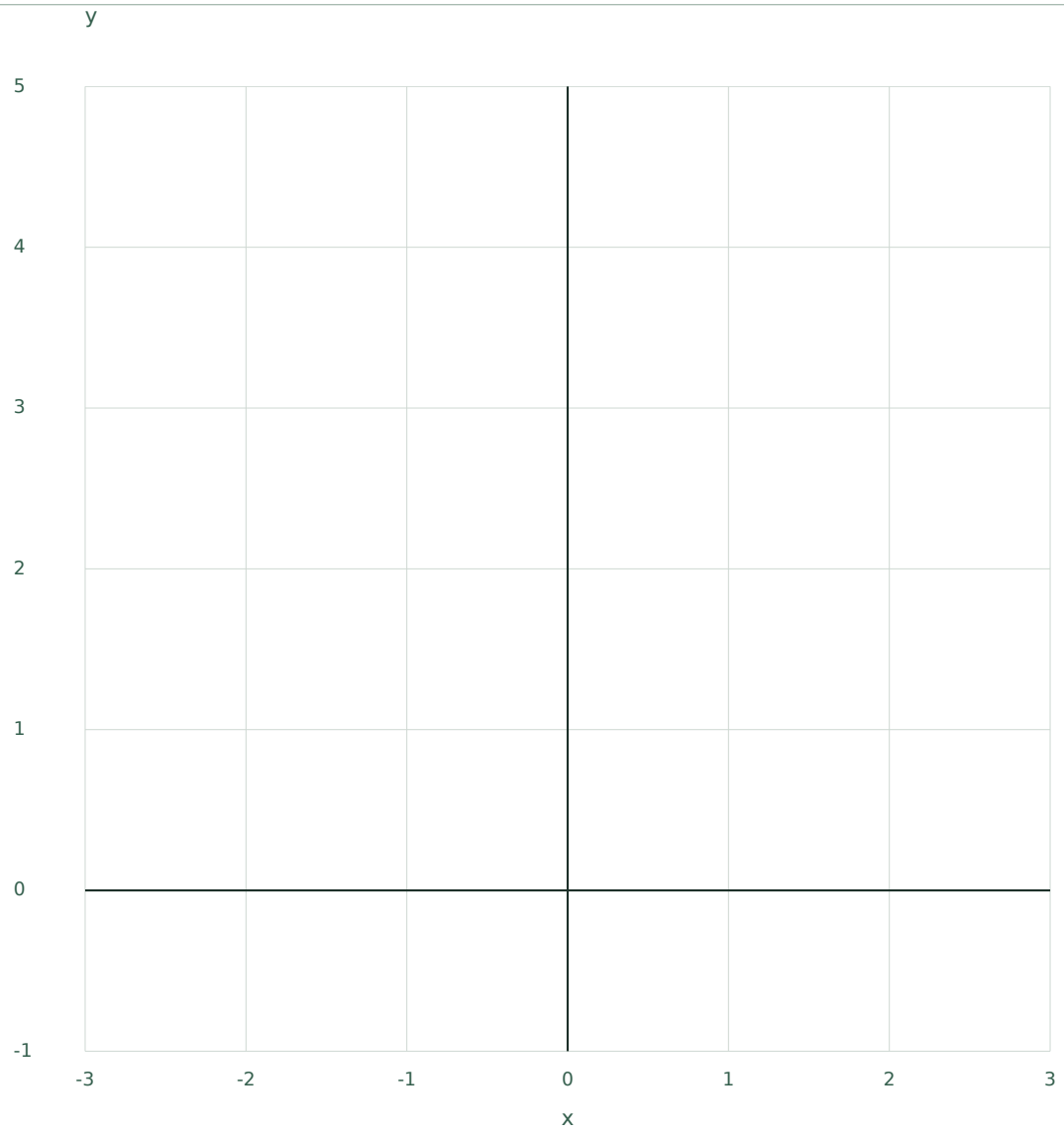
Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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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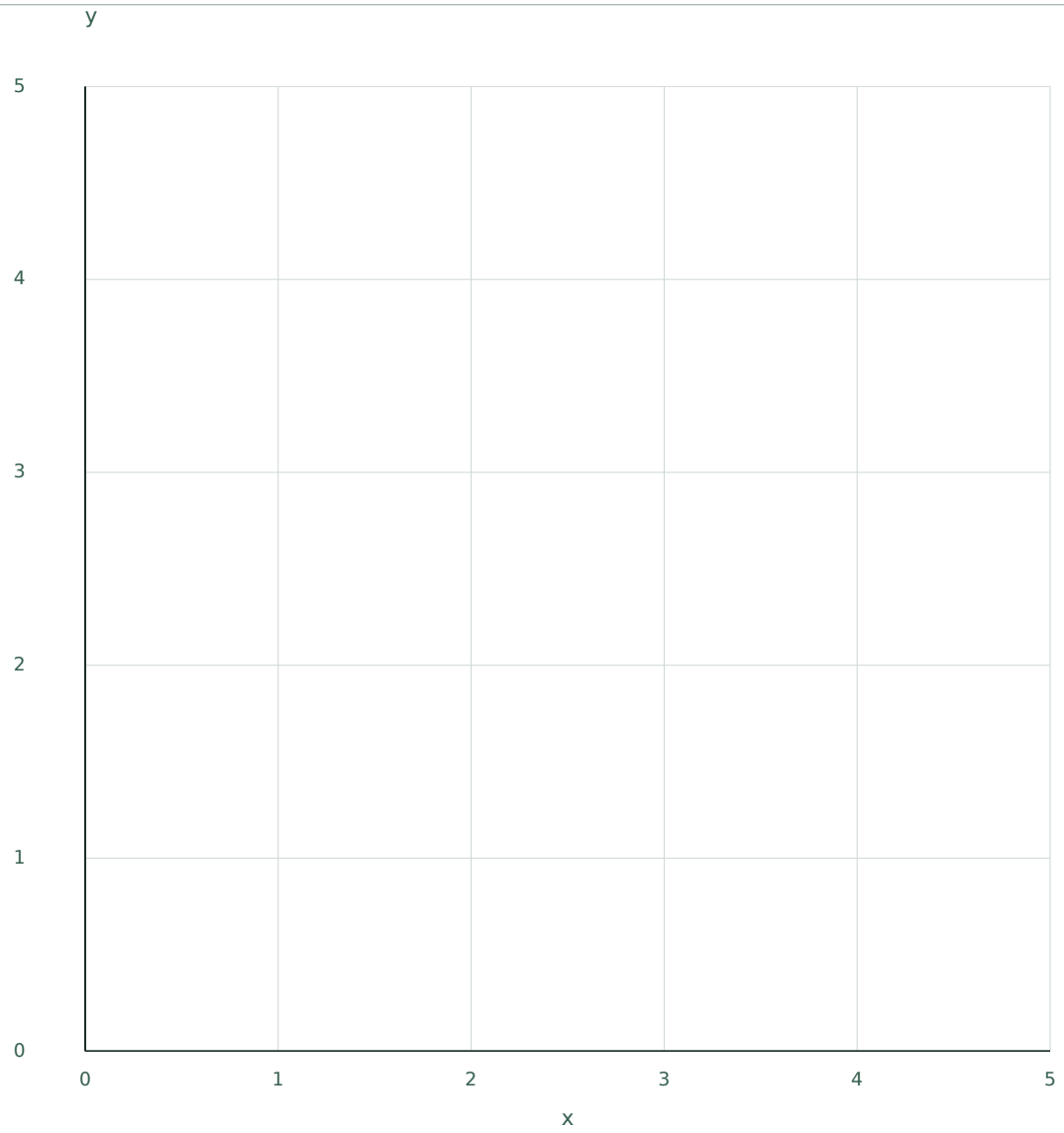
Task 1 blank grid: y = 2^x, x from -2 to 2



Blank student grid; each square is 1 unit on both axes. No curve or points supplied.

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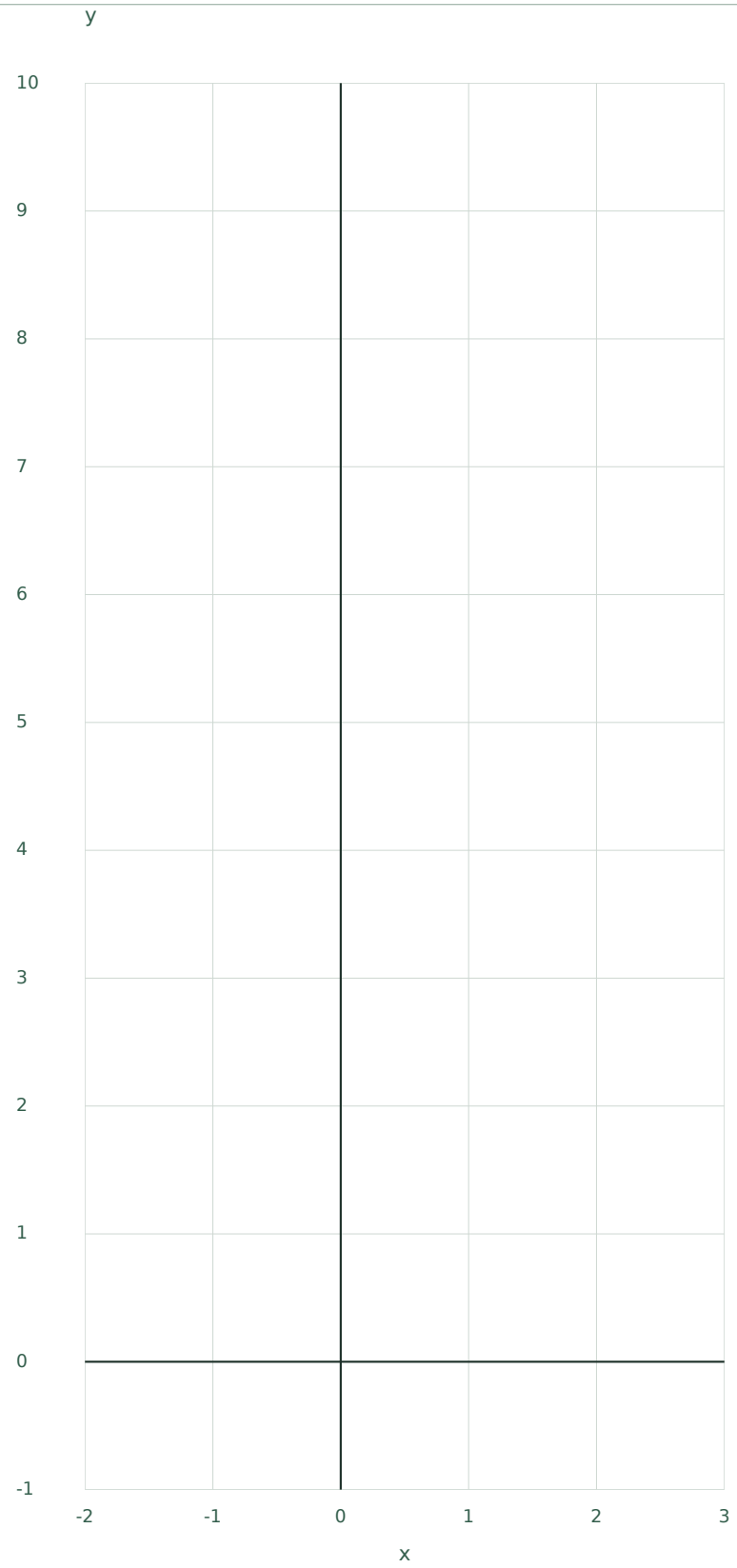
Task 2 blank grid: y = x + 1/x, x from 1 to 4



Blank student grid; each square is 1 unit on both axes. No curve or points supplied.

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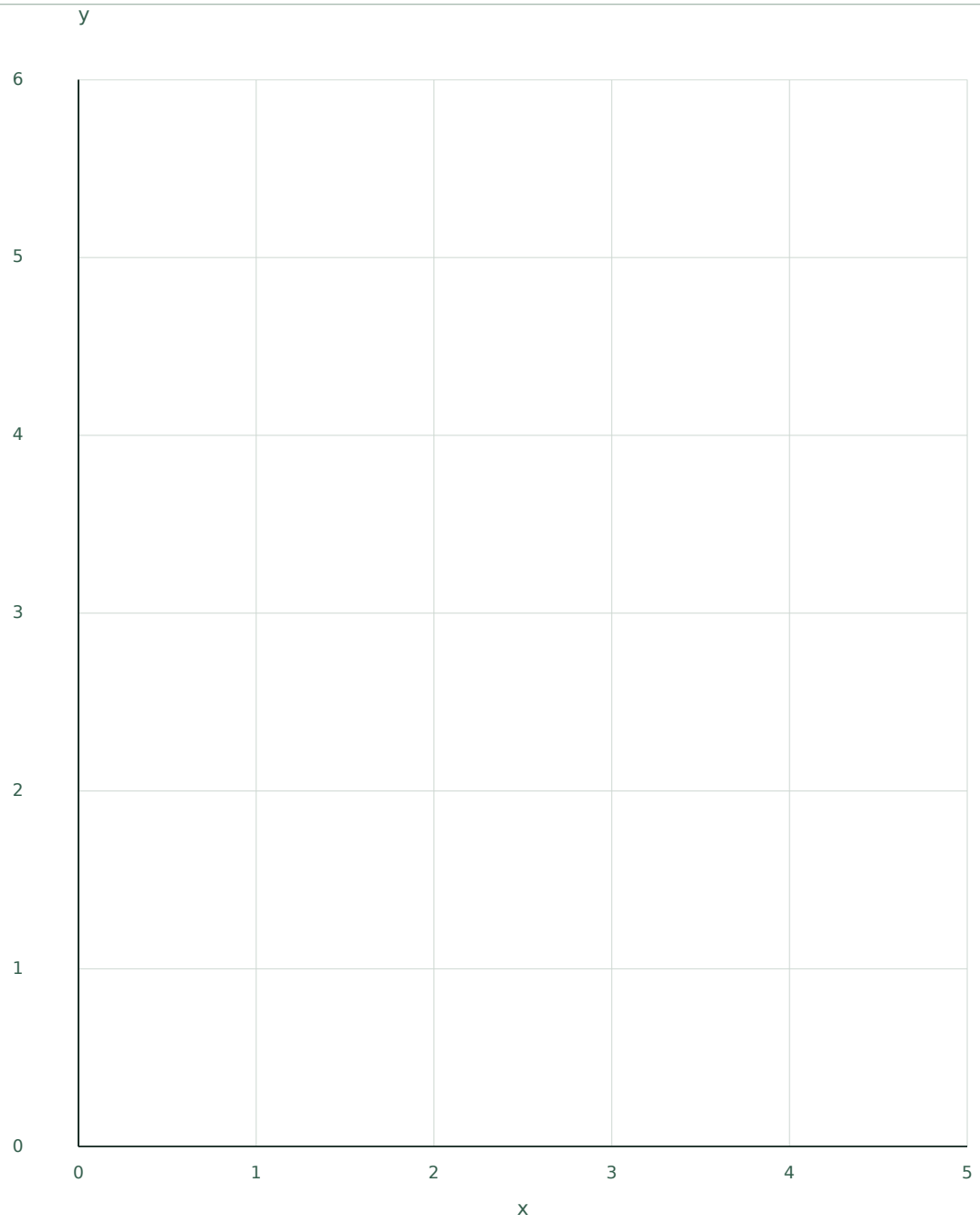
Task 3 blank grid: y = 3^x, x from -1 to 2



Blank student grid; each square is 1 unit on both axes. No curve or points supplied.

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Task 4 blank grid: y = x + 4/x, x from 1 to 4



Blank student grid; each square is 1 unit on both axes. No curve or points supplied.