Graph Equations by Plotting Points: A Table-and-Grid Method

Worksheet instructions and convention

One square = one unit unless a scale note is written. Use dots for points; label at least two points; ruler for lines; smooth curve for nonlinear; include a verification note.

Convention: each grid square represents one unit unless you write a scale note.

Plot points as small dots and label at least two points with ordered pairs.

Draw straight lines with a ruler and curves smoothly.

Include a verification note showing one checked point.

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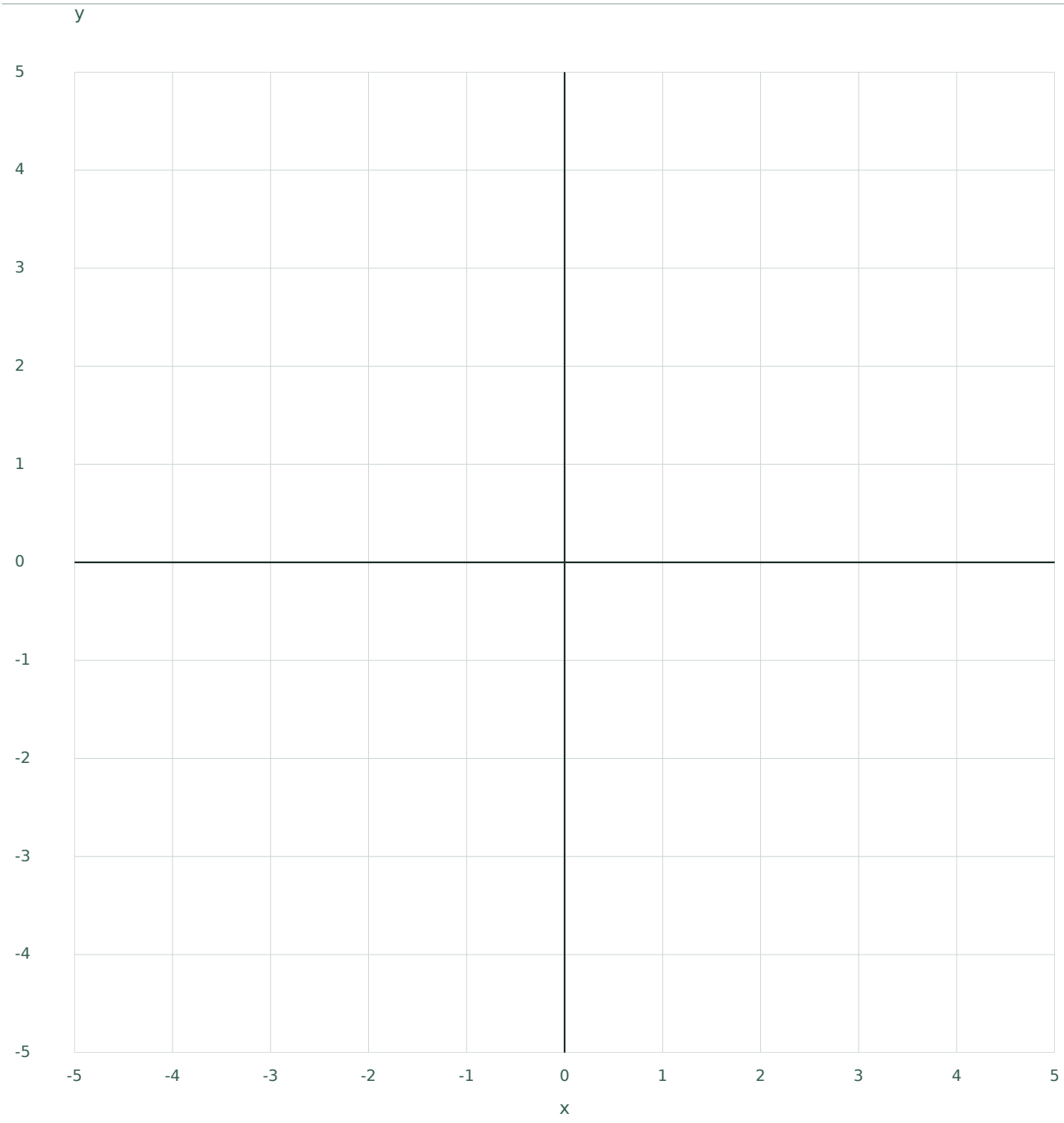
Blank x/y table for y = x + 2

Use x = -2, -1, 0, 1, 2.

x	y
-2	
-1	
0	
1	
2	

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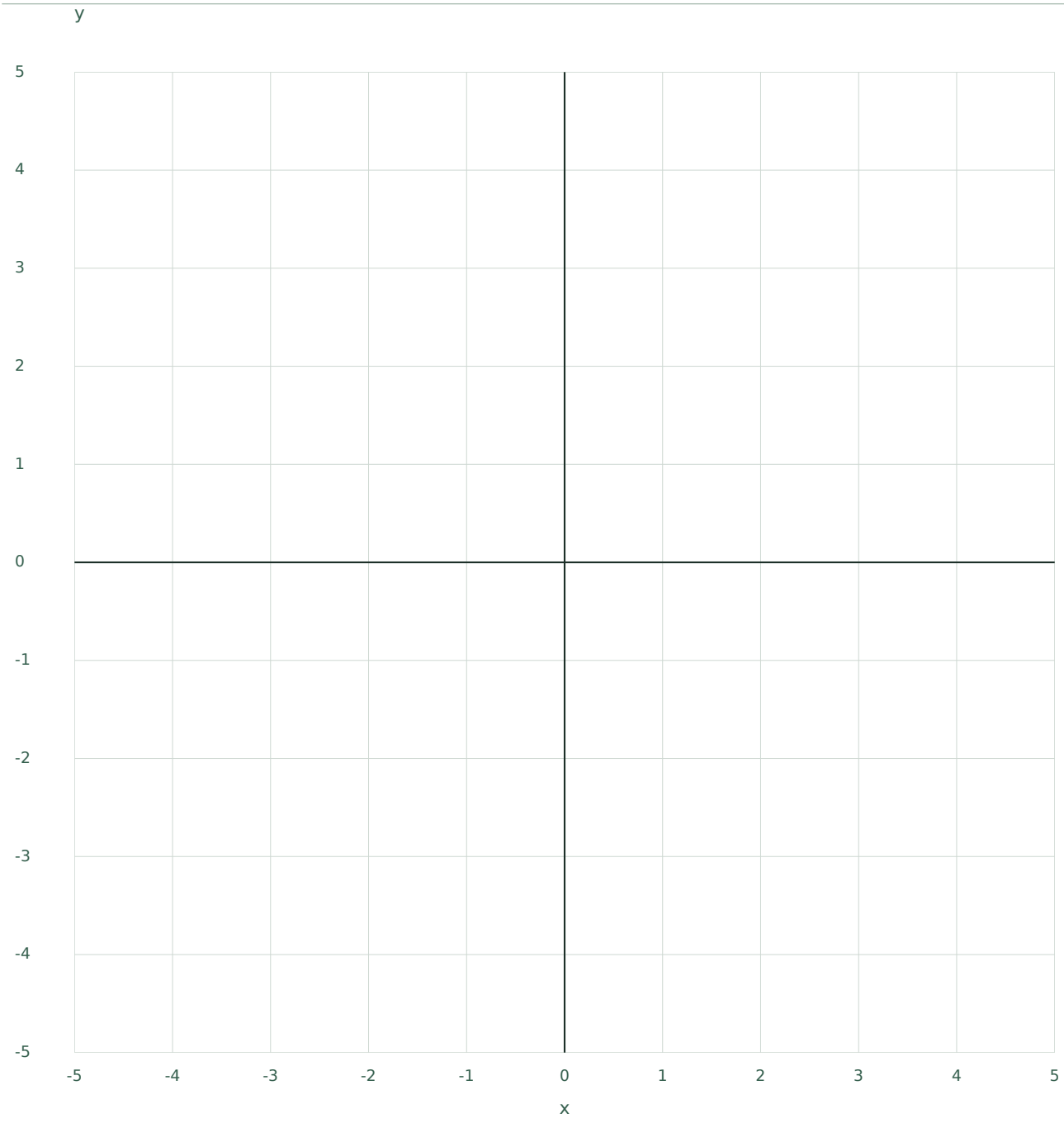
Blank coordinate grid for y = x + 2



Blank grid for y = x + 2.

Graph Equations by Plotting Points: A Table-and-Grid Method

Blank coordinate grid for y = x^2 - 1



Blank grid for y = x^2 - 1.

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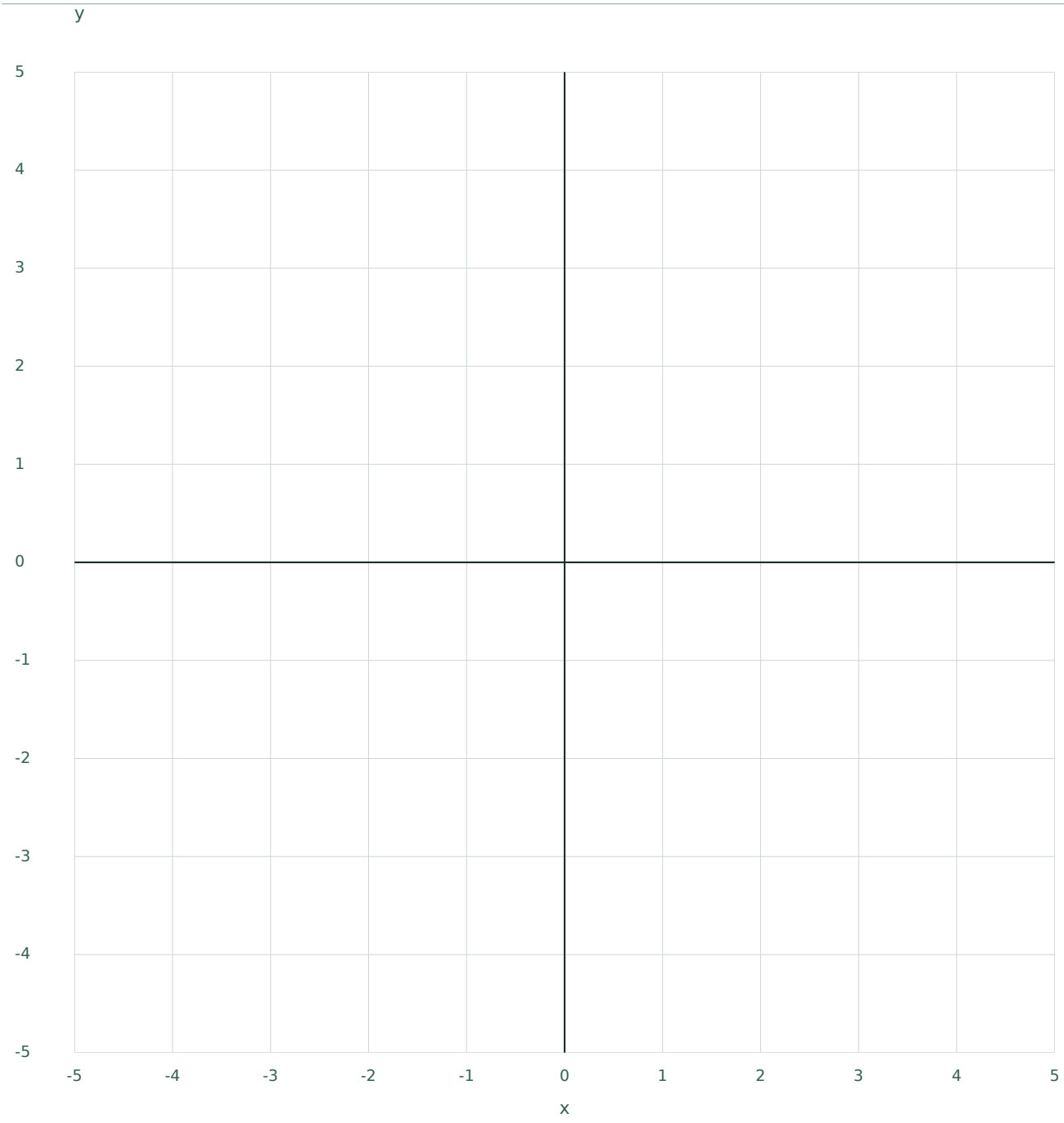
Blank x/y table for y = -2x + 3

Use x = -1, 0, 1, 2.

x	y
-1	
0	
1	
2	

Graph Equations by Plotting Points: A Table-and-Grid Method

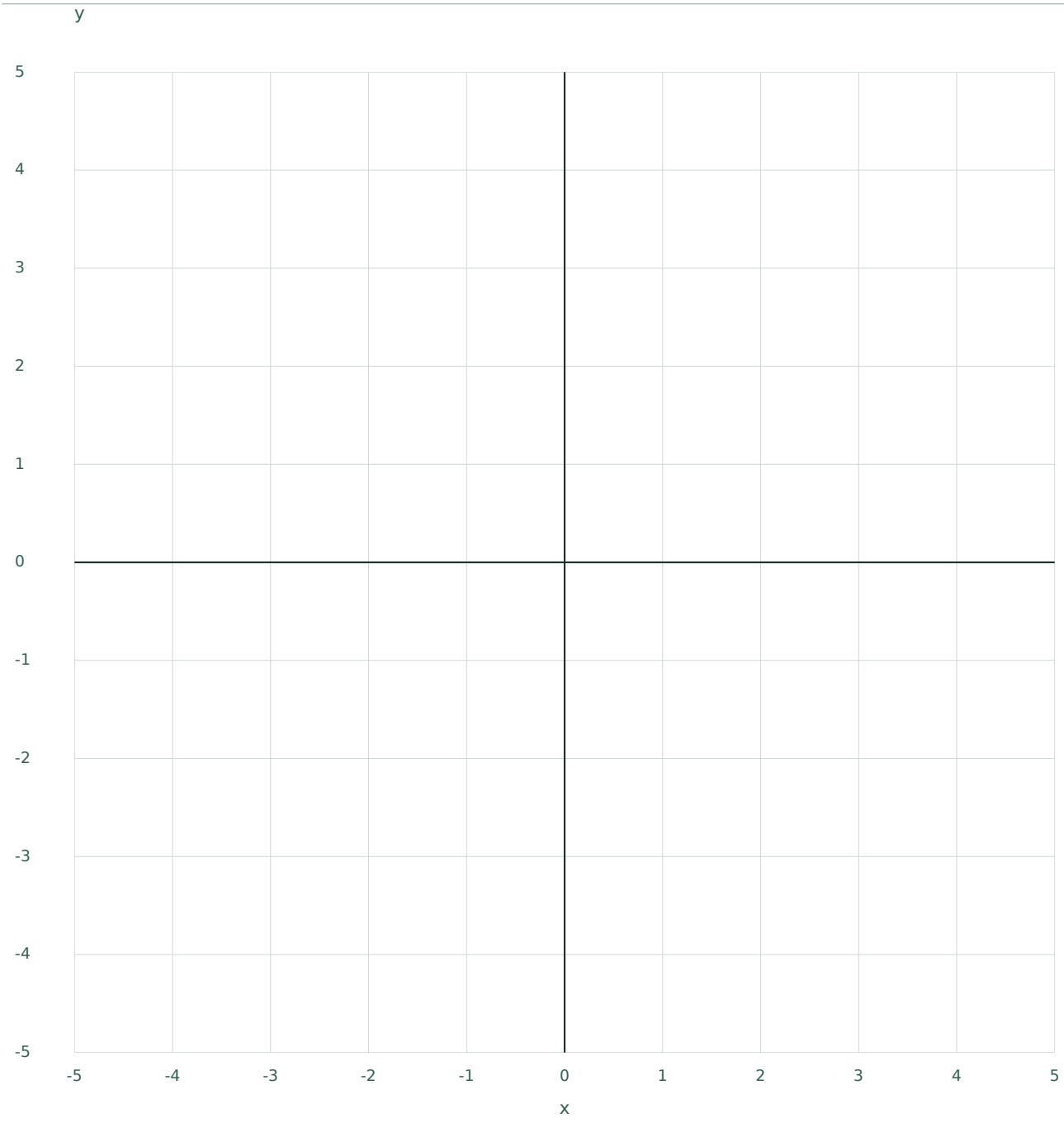
Blank coordinate grid for y = -2x + 3



Blank grid for y = -2x + 3.

Graph Equations by Plotting Points: A Table-and-Grid Method

Blank coordinate grid for y = 0.5x^2 + 1



Blank grid for y = 0.5x^2 + 1.

Graph Equations by Plotting Points: A Table-and-Grid Method

Verification note space

Write one point on your graph and substitute it into the equation to check.

Graph Equations by Plotting Points: A Table-and-Grid Method

Original tasks 1, 2, 3 / blank responses

Task 1

Graph y = x + 2 by plotting points. Use x = -2, -1, 0, 1, 2. Describe the table and the graph.

Task 2

Graph y = x^2 - 1 by plotting points. Use x = -2, -1, 0, 1, 2. Describe the shape and the vertex.

Task 3

Graph y = -2x + 3 by plotting points. Use x = -1, 0, 1, 2. Describe the line and its direction.

Graph Equations by Plotting Points: A Table-and-Grid Method

Original tasks 4 / blank responses

Task 4

Graph y = 0.5x^2 + 1 by plotting points. Use x = -2, -1, 0, 1, 2. Describe the curve and a verification point.