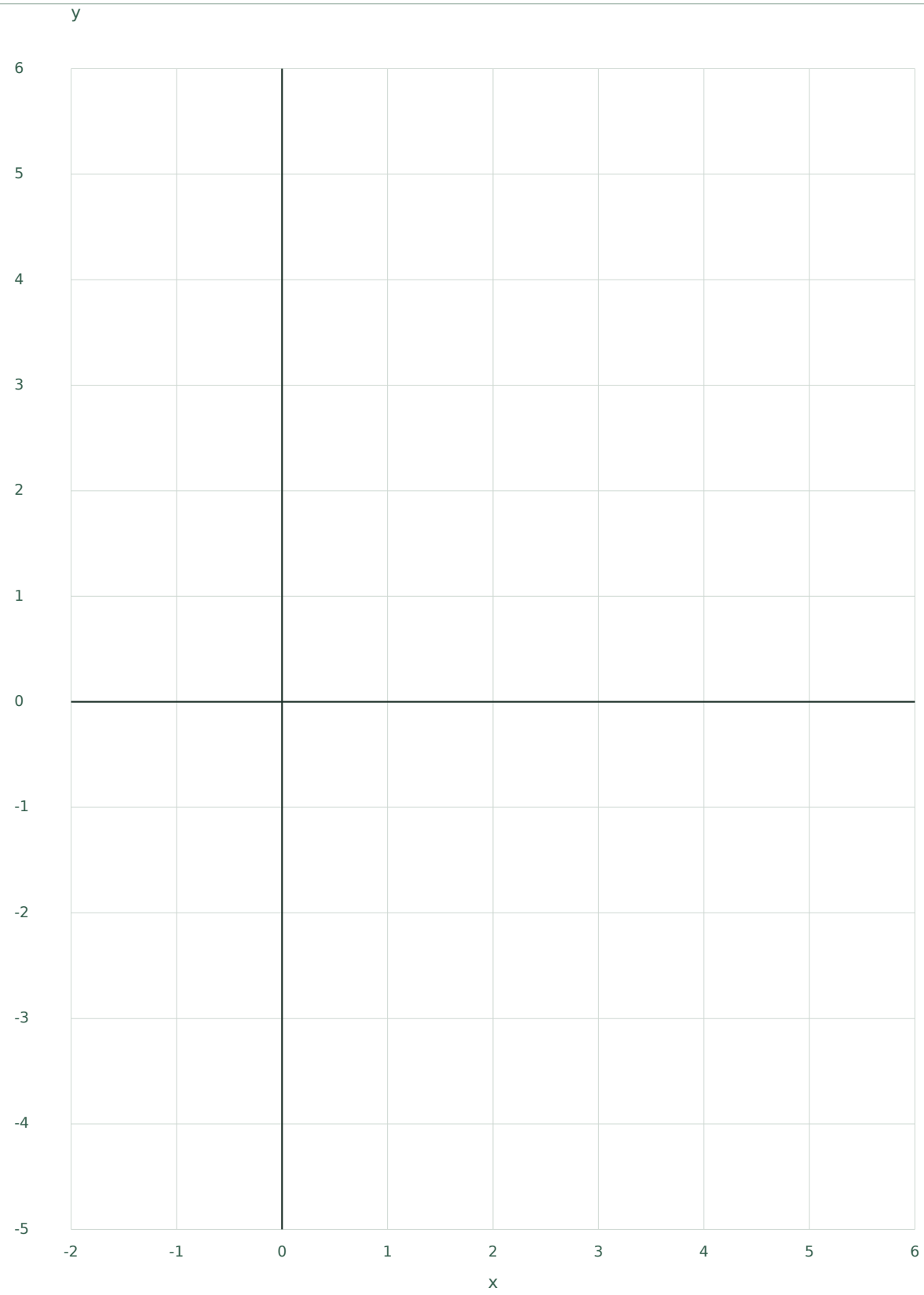
Graph Quadratics in Standard Form: Vertex, Intercepts, and Points

Blank coordinate grid template



Use a consistent scale on both axes.

Graph Quadratics in Standard Form: Vertex, Intercepts, and Points

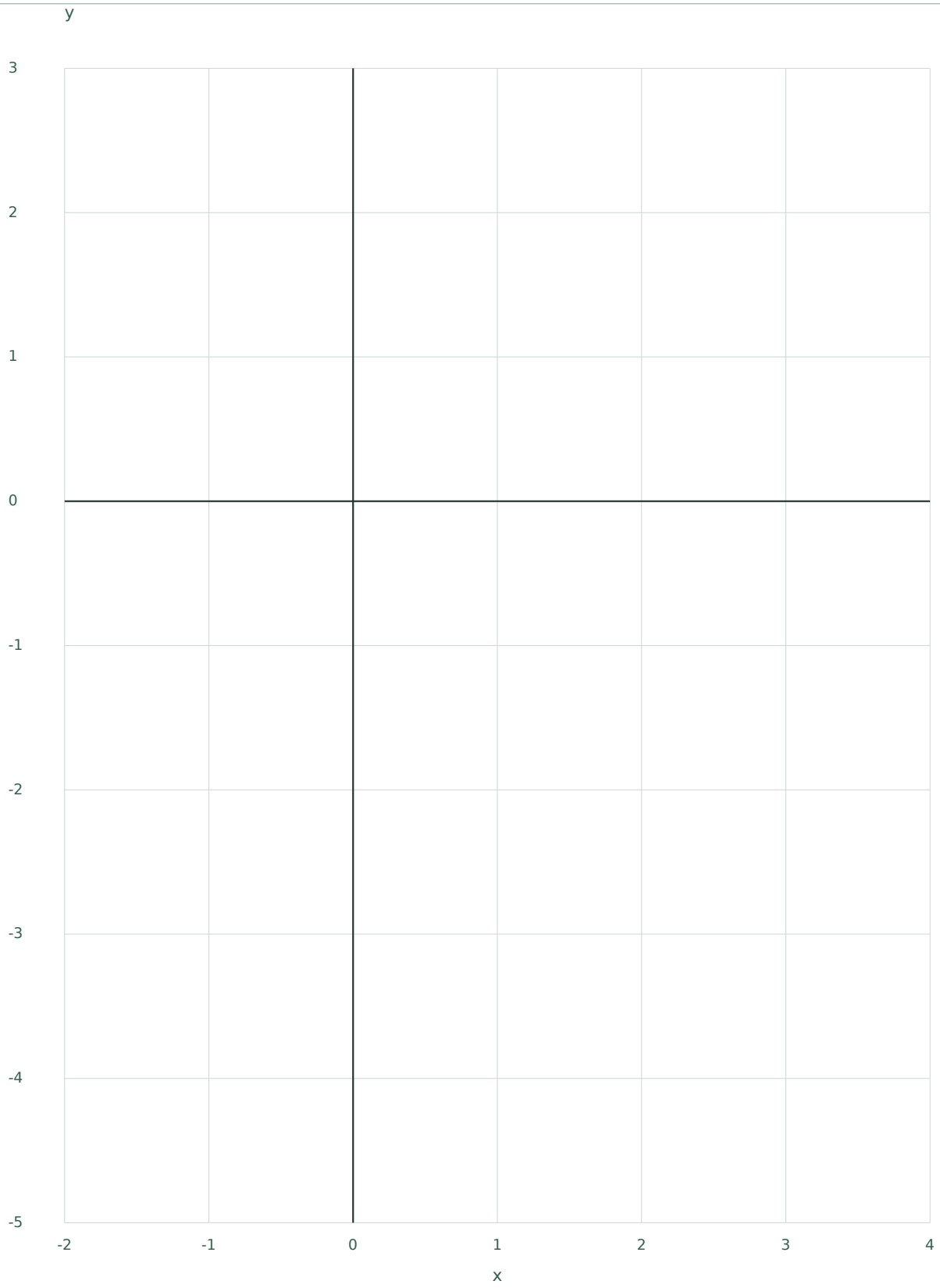
Worksheet: four standard-form quadratic tasks

Step table for each task: axis of symmetry, vertex, y-intercept, additional points.

Task	Equation	Axis of symmetry	Vertex (h, k)
1	y = x^2 - 2x - 3		
2	y = -x^2 + 4x - 1		
3	y = 2x^2 - 8x + 5		
4	y = -0.5x^2 + 2x + 1		

Graph Quadratics in Standard Form: Vertex, Intercepts, and Points

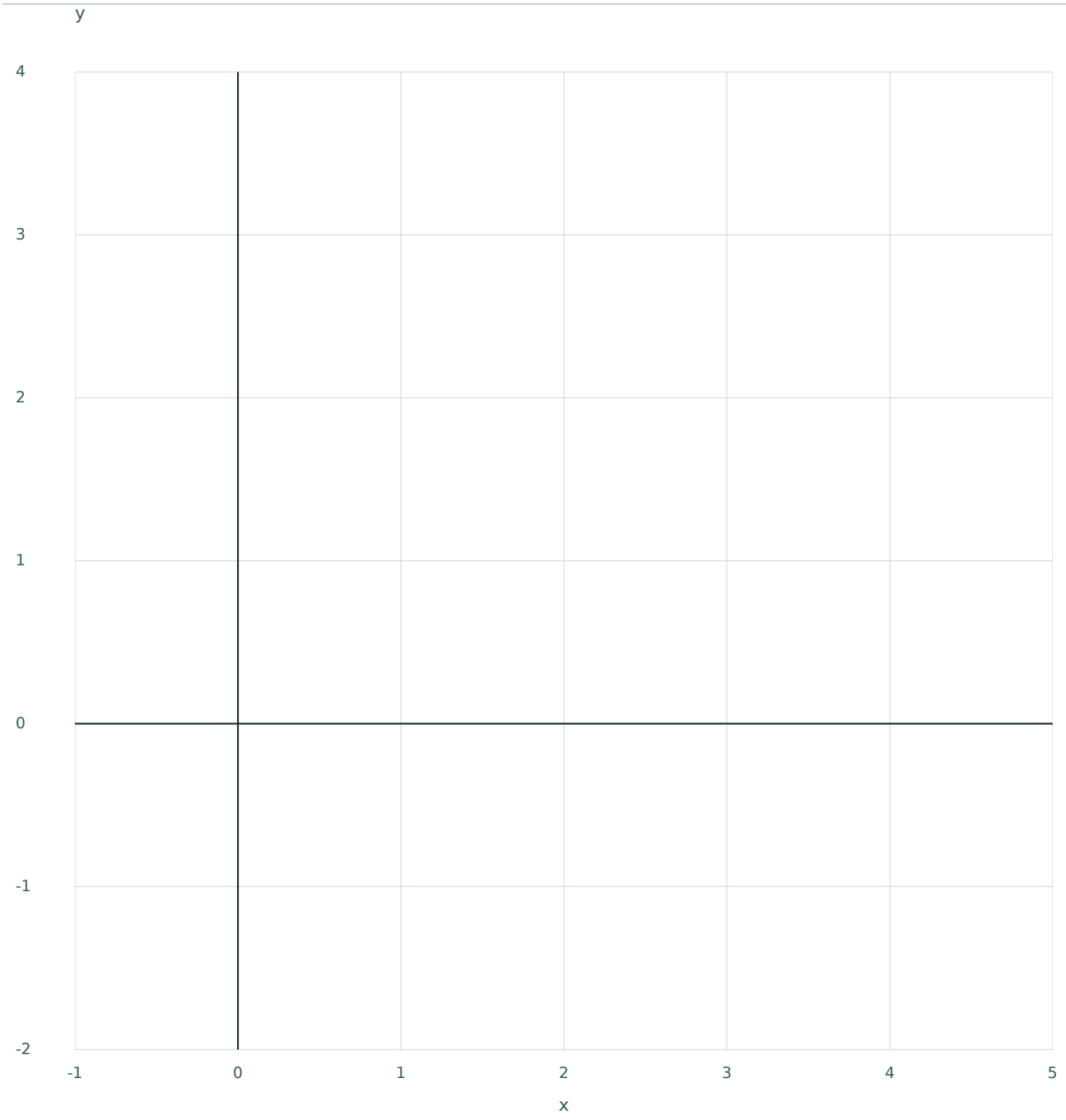
Task 1 blank grid: y = x^2 - 2x - 3



Plot axis, vertex, y-intercept, and x-intercepts.

Graph Quadratics in Standard Form: Vertex, Intercepts, and Points

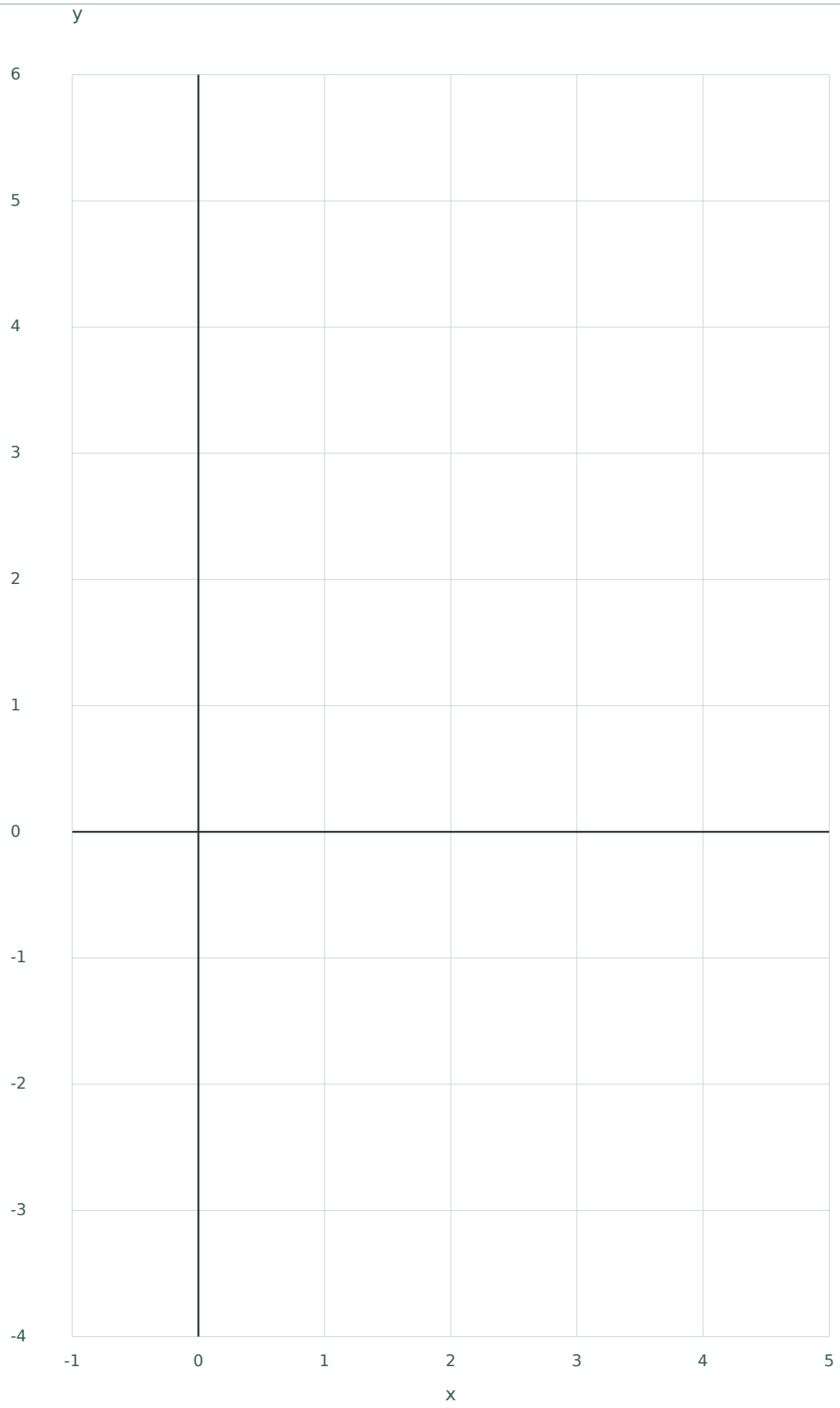
Task 2 blank grid: y = -x^2 + 4x - 1



Plot axis, vertex, y-intercept, and two symmetric points.

Graph Quadratics in Standard Form: Vertex, Intercepts, and Points

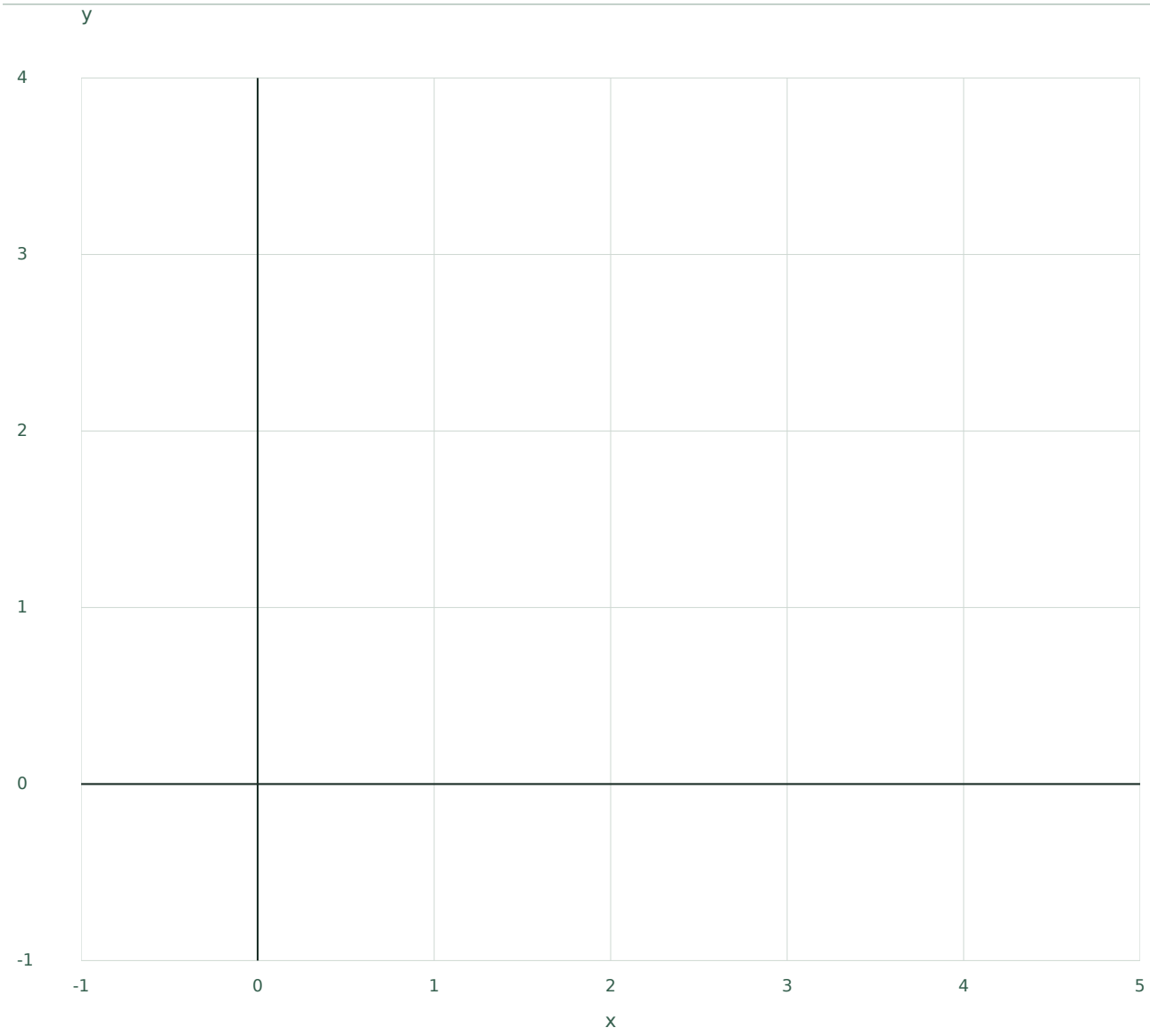
Task 3 blank grid: y = 2x^2 - 8x + 5



Plot axis, vertex, y-intercept, and one symmetric pair.

Graph Quadratics in Standard Form: Vertex, Intercepts, and Points

Task 4 blank grid: y = -0.5x^2 + 2x + 1



Use a consistent scale and label the axis of symmetry.

Graph Quadratics in Standard Form: Vertex, Intercepts, and Points

Original tasks 1, 2, 3 / blank responses

Task 1

Graph y = x^2 - 2x - 3. Find the axis of symmetry, vertex, y-intercept, and x-intercepts.

Task 2

Graph y = -x^2 + 4x - 1. Find the axis of symmetry, vertex, y-intercept, and two symmetric points.

Task 3

Graph y = 2x^2 - 8x + 5. Find the axis of symmetry, vertex, y-intercept, and one additional symmetric pair.

Graph Quadratics in Standard Form: Vertex, Intercepts, and Points

Original tasks 4 / blank responses

Task 4

Graph y = -0.5x^2 + 2x + 1. Find the axis of symmetry, vertex, y-intercept, and two symmetric points. Use a consistent scale and label the axis of symmetry.