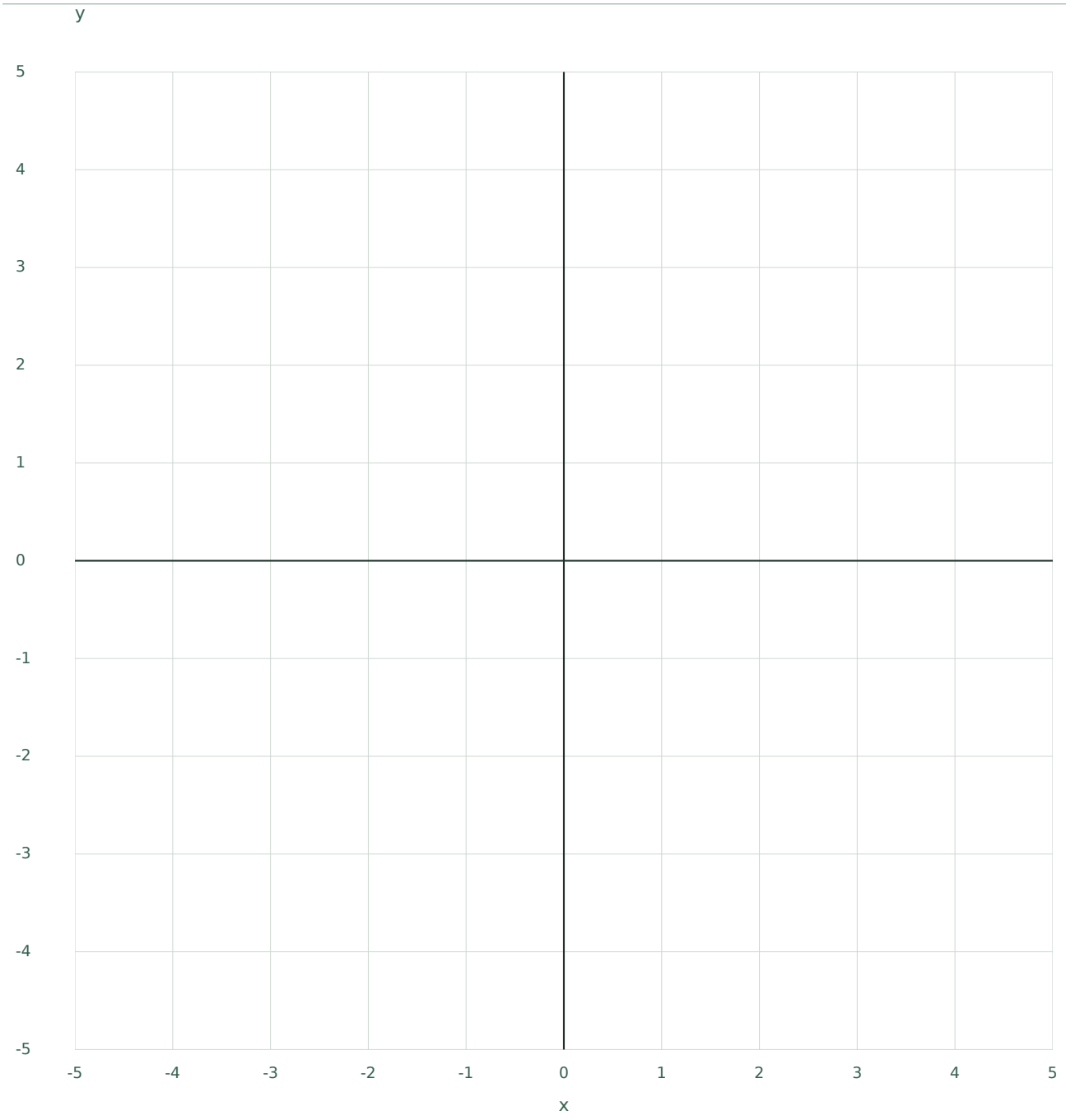
Graphing Linear-Quadratic Systems: Find Intersection Points

Practice Worksheet: Graphing Linear-Quadratic Systems



Blank grid for Exercise 1. Repeat with the same axes for Exercises 2-4; students draw both curves and mark intersections.

Graphing Linear-Quadratic Systems: Find Intersection Points

Plotting Table and Verification Prompts / 1 of 2

Students fill x-values around the vertex, compute y, then record ordered pairs and substitution checks.

x	y (line)	y (parabola)	Ordered pair (x, y)

Graphing Linear-Quadratic Systems: Find Intersection Points

Plotting Table and Verification Prompts / 2 of 2

Students fill x-values around the vertex, compute y, then record ordered pairs and substitution checks.

x	y (line)	y (parabola)	Ordered pair (x, y)

Graphing Linear-Quadratic Systems: Find Intersection Points

Original tasks 1, 2, 3 / blank responses

Task 1

Graph y = x + 2 and y = x squared on the same axes. Find the intersection points and verify them.

Task 2

Graph y = -x + 4 and y = x squared - 5x + 7 on the same axes. Find the intersection points and verify them.

Task 3

Graph y = 2x - 3 and y = x squared - 4x + 5. Find the intersection points and verify them.

Graphing Linear-Quadratic Systems: Find Intersection Points

Original tasks 4 / blank responses

Task 4

Graph y = x - 1 and y = x squared - 2x + 1 on the same axes. How many intersection points are there? Find them and verify.