Graphing vs Substitution: Solving Linear Systems Two Ways

Original tasks 1, 2 / independent work

Task 1

Solve by substitution: y = 3x - 2 and x + y = 6. Then describe the graph.

Task 2

Solve by graphing: y = -x + 5 and y = 2x - 1. Describe the lines and intersection.

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Original tasks 3, 4 / independent work

Task 3

Solve by substitution: 2x + y = 7 and y = x + 1. Then verify by graphing.

Task 4

Solve by graphing: y = 2x + 1 and y = 2x - 3. State the number of solutions and explain algebraically.

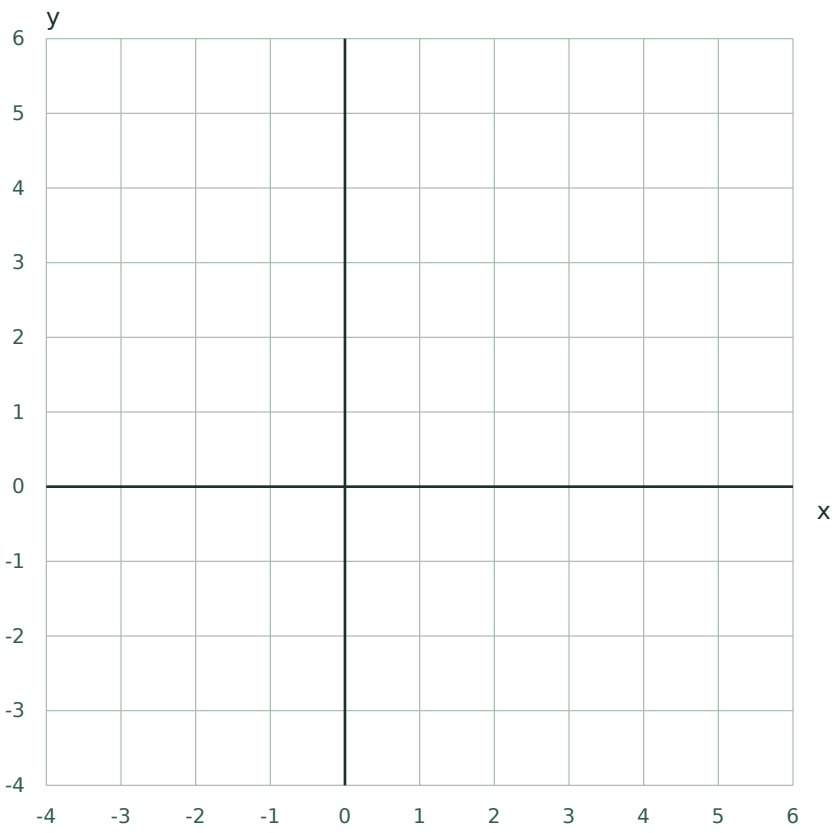
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Task 2 / empty source grid

Solve by graphing: y = -x + 5 and y = 2x - 1. Describe the lines and intersection.

Line 1 (solid green): y = -x + 5

Line 2 (long-dashed orange): y = 2x - 1



Student grid: plot your own points and source line(s). No solution is prefilled.

Horizontal interval = 1; vertical interval = 1. This is a display window, not a new domain.

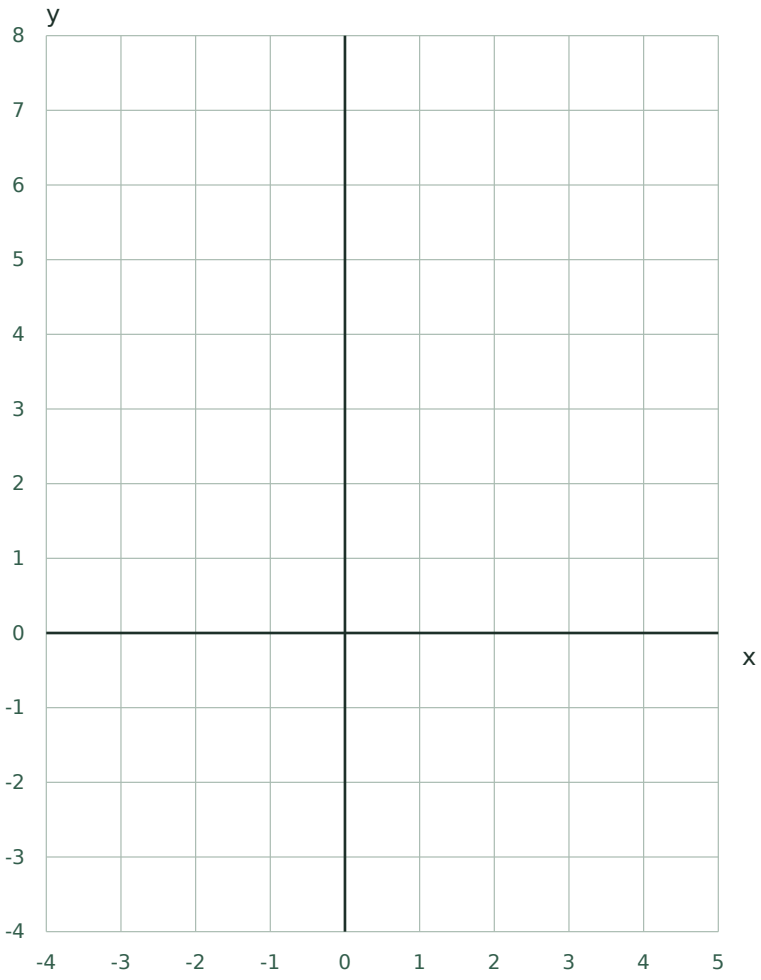
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Task 3 / empty source grid

Solve by substitution: 2x + y = 7 and y = x + 1. Then verify by graphing.

Line 1 (solid green): 2x + y = 7

Line 2 (long-dashed orange): y = x + 1



Student grid: plot your own points and source line(s). No solution is prefilled.

Horizontal interval = 1; vertical interval = 1. This is a display window, not a new domain.

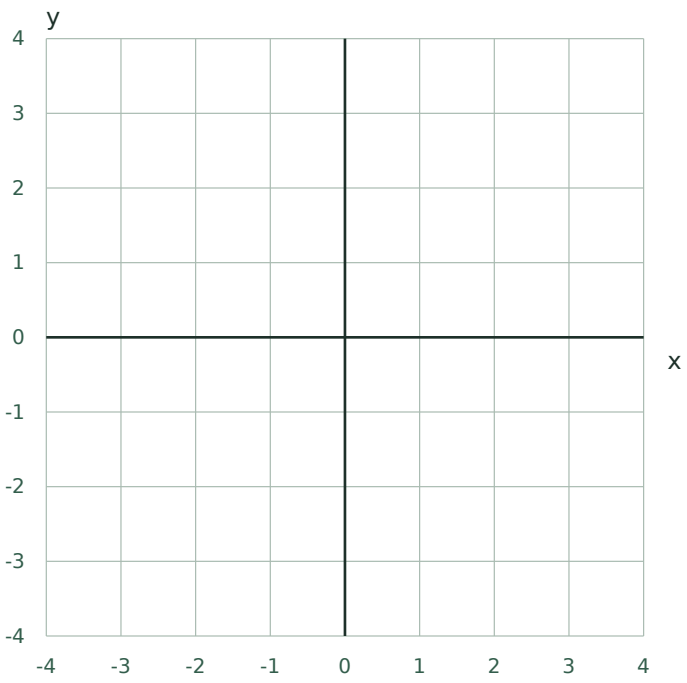
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Task 4 / empty source grid

Solve by graphing: y = 2x + 1 and y = 2x - 3. State the number of solutions and explain algebraically.

Line 1 (solid green): y = 2x + 1

Line 2 (long-dashed orange): y = 2x - 3



Student grid: plot your own points and source line(s). No solution is prefilled.

Horizontal interval = 1; vertical interval = 1. This is a display window, not a new domain.