Writing Systems of Inequalities from Shaded Graphs: Reverse Reasoning Practice

Original task 1 / independent drawing and calculation

Task 1

A graph shows a solid line through (0,2) and (3,5). The shaded region is above this line. A second solid line passes through (0,6) and (3,0), and the shaded region is below this line. Write the system.

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

A graph shows a dashed line through (0,1) and (2,3). The shaded region is below this line. A solid vertical line is at x = 1, and the shaded region is to the right. Write the system.

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

A graph shows a solid line through (0,5) and (5,0). The shaded region is below this line. A dashed line passes through (0,0) and (2,4), and the shaded region is above this line. Write the system.

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

A graph shows a dashed horizontal line at y = 2 with shading above it. A solid line passes through (0,0) and (2,2), and the shaded region is below this line. Write the system.

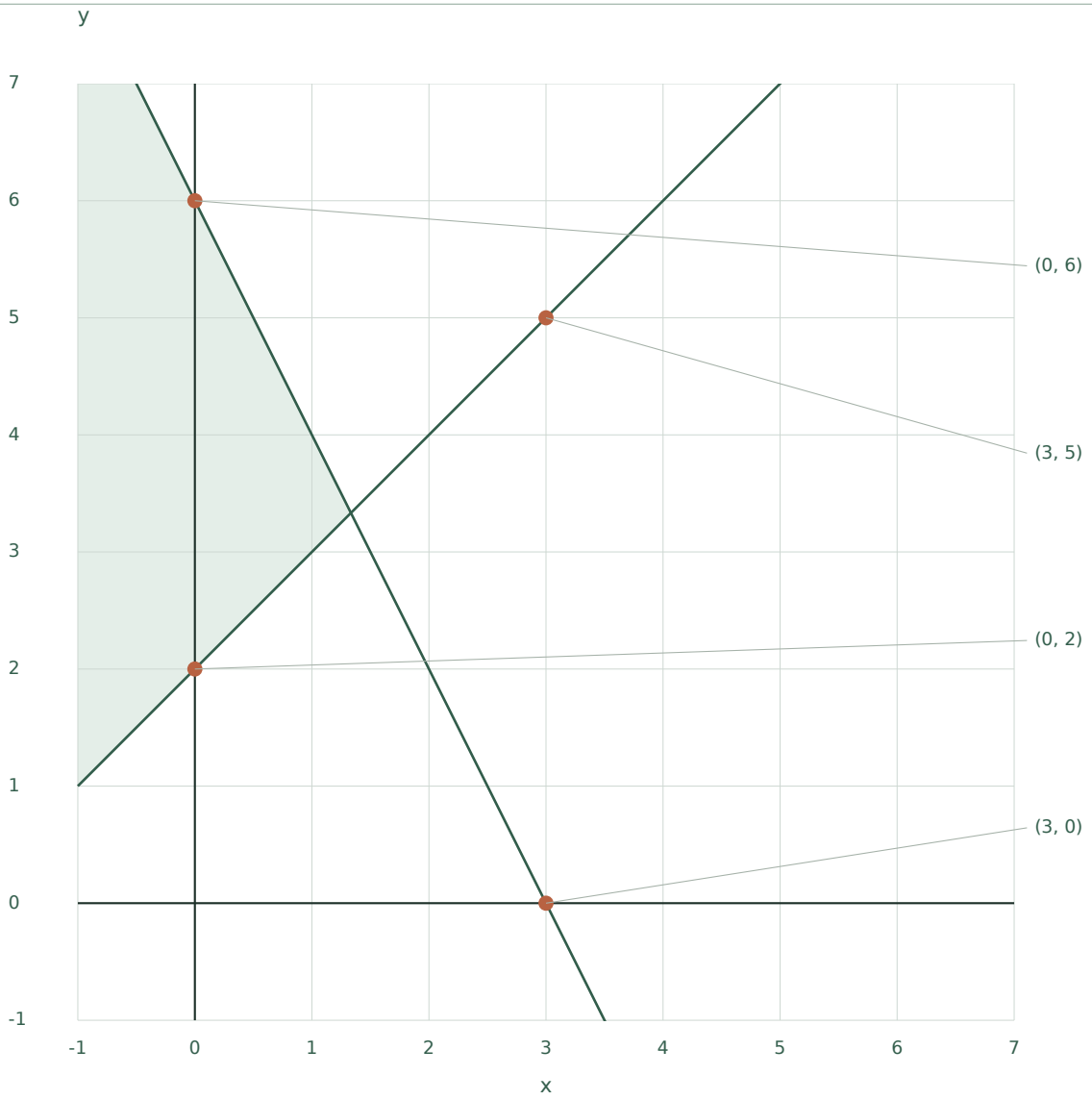
Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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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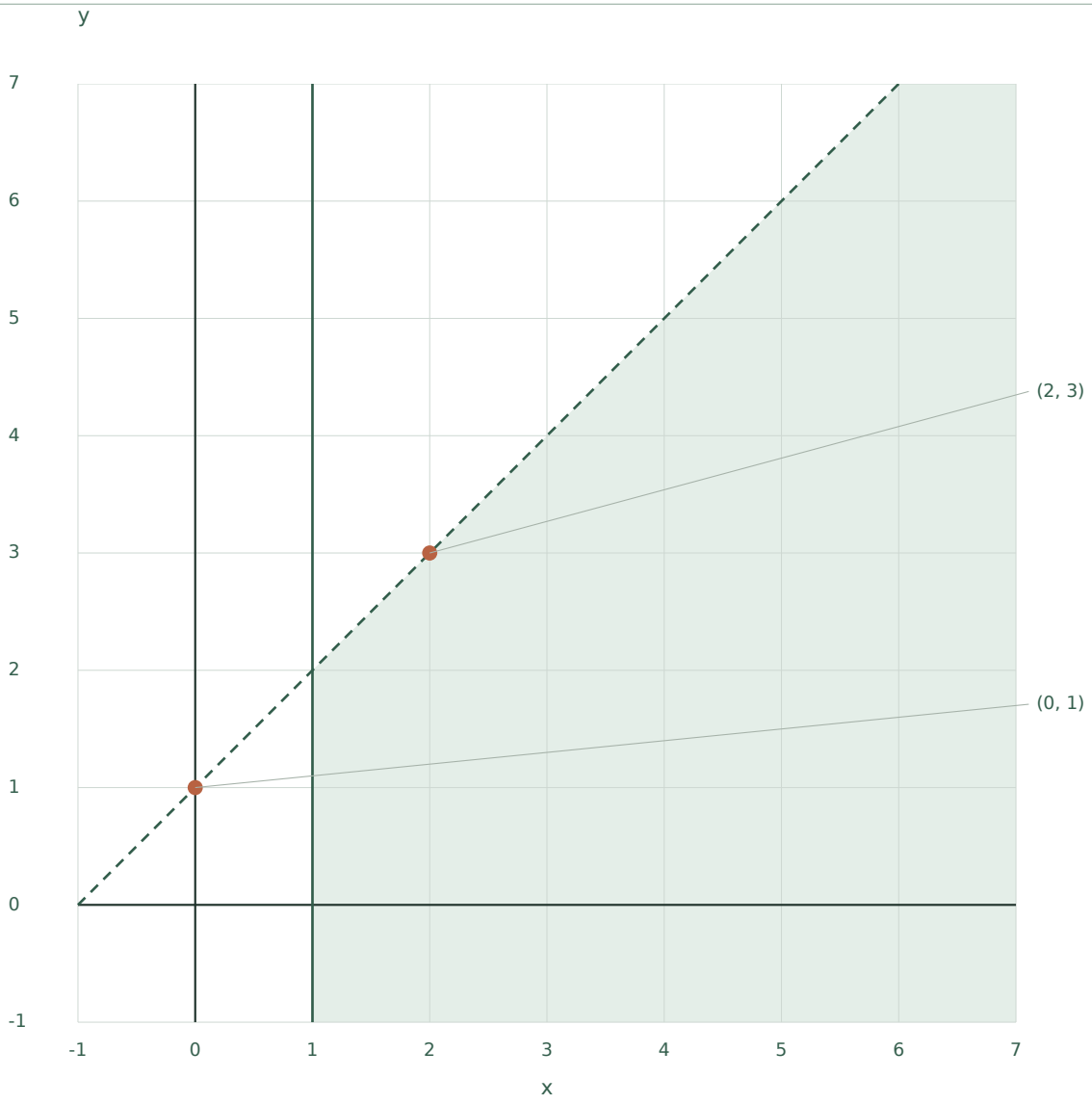
Task 1 / given graph



This is the GIVEN shaded graph. Write the system from the boundary styles and overlapping shaded region. Marked points identify boundaries, not solution membership. Coordinate labels sit outside the plot; thin grey leaders are annotations, not function curves.

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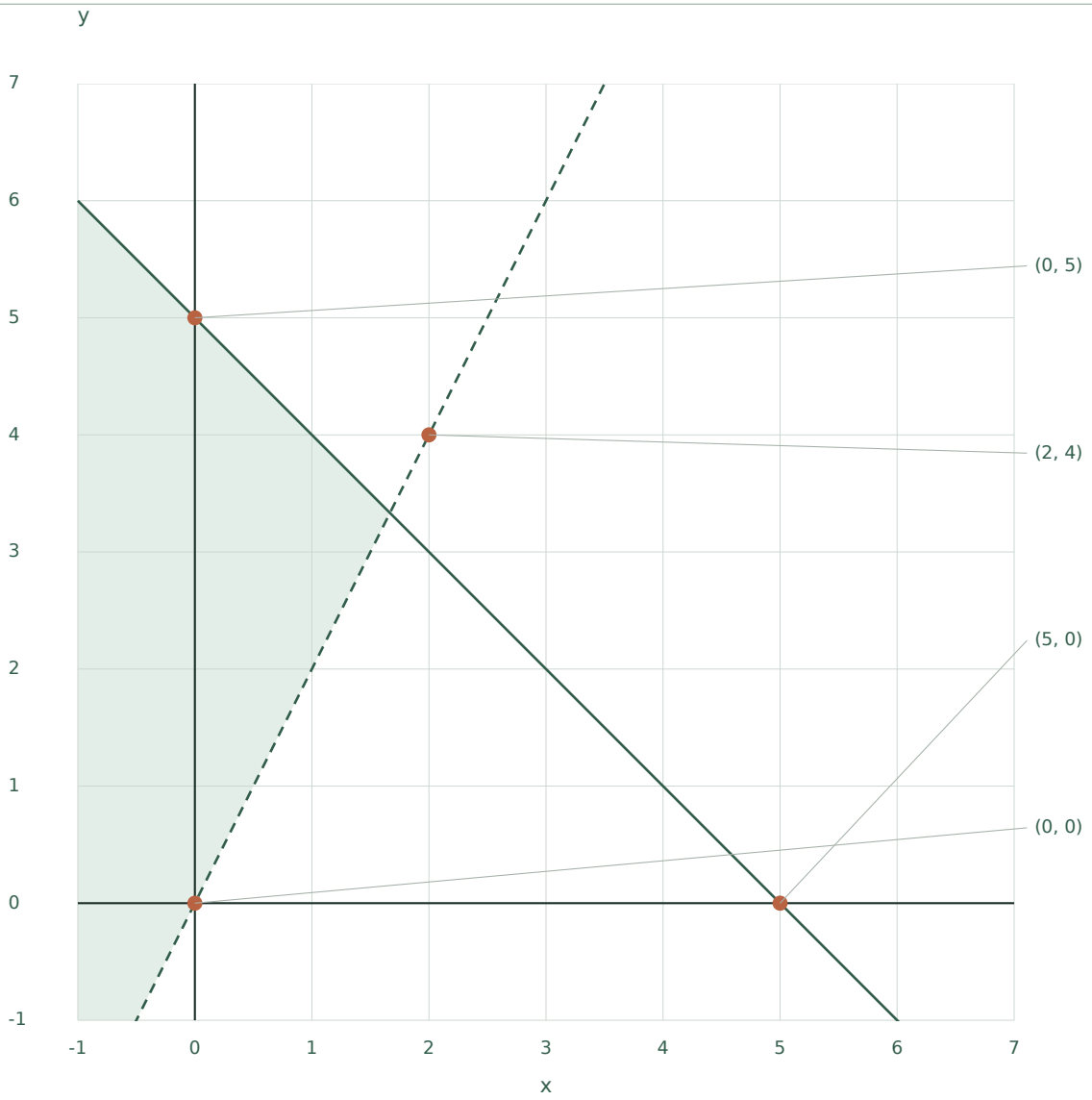
Task 2 / given graph



This is the GIVEN shaded graph. Write the system from the boundary styles and overlapping shaded region. Marked points identify boundaries, not solution membership. Coordinate labels sit outside the plot; thin grey leaders are annotations, not function curves.

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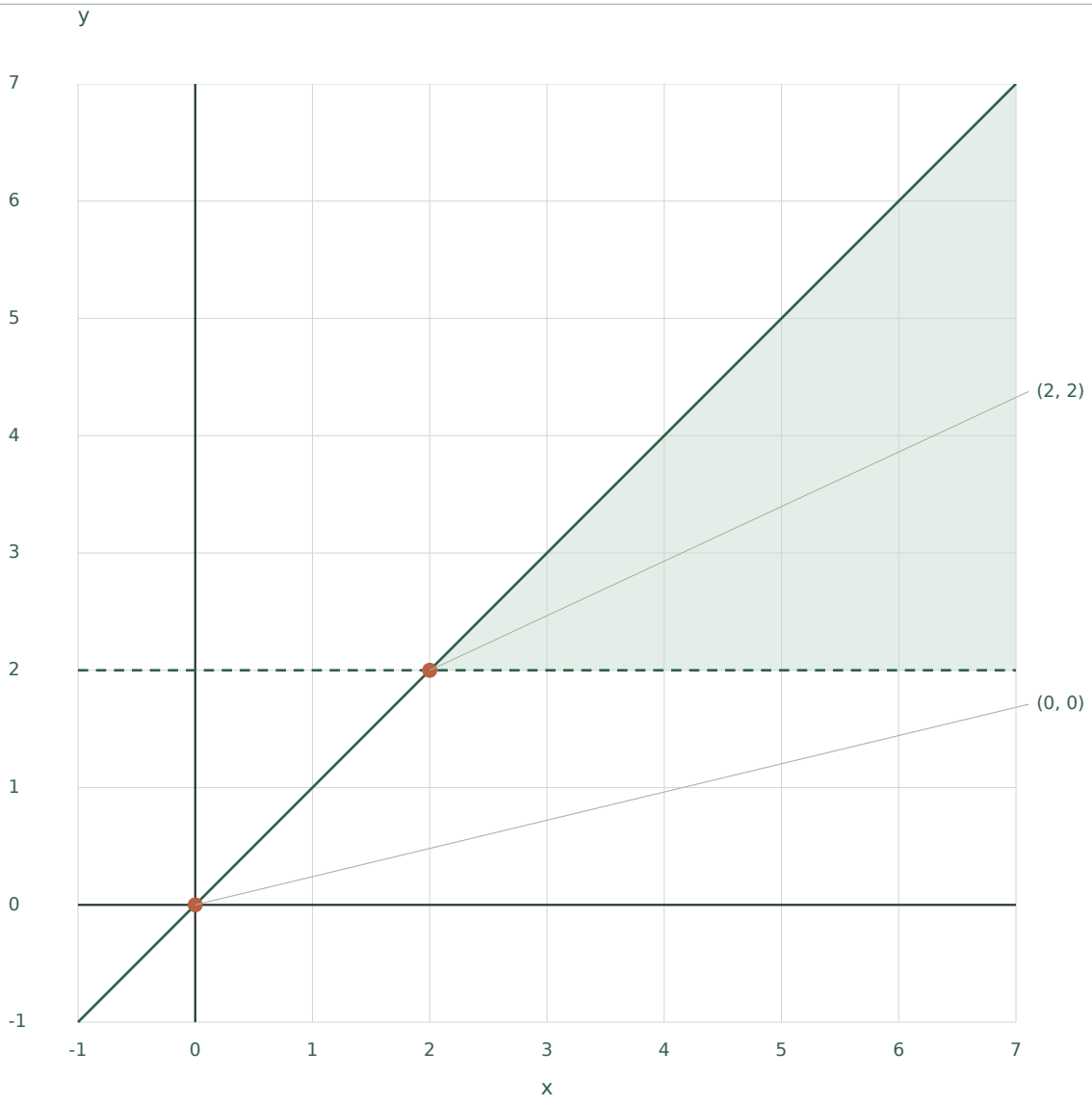
Task 3 / given graph



This is the GIVEN shaded graph. Write the system from the boundary styles and overlapping shaded region. Marked points identify boundaries, not solution membership. Coordinate labels sit outside the plot; thin grey leaders are annotations, not function curves.

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Task 4 / given graph



This is the GIVEN shaded graph. Write the system from the boundary styles and overlapping shaded region. Marked points identify boundaries, not solution membership. Coordinate labels sit outside the plot; thin grey leaders are annotations, not function curves.