

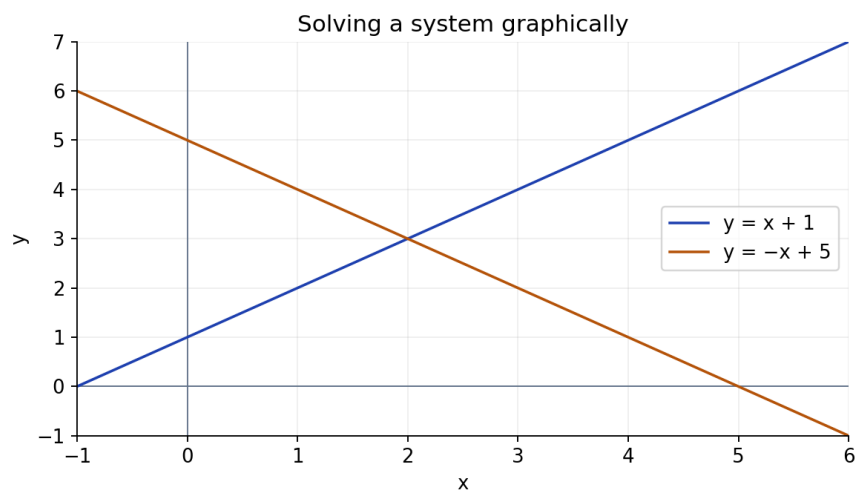
Problems | Name: _____

4.1 Substitution and Elimination

4.1.1. Solve $y = 2x$ and $x + y = 12$.

4.1.2. Solve $2x + y = 8$ and $2x - y = 4$.

4.1.3. Use the graph to solve the system $y = x + 1$, $y = -x + 5$.



The solution must lie on both lines.

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4.2 Number of Solutions

4.2.1. How many solutions do $y = -x + 2$ and $y = 3x - 2$ have?

4.2.2. Classify $3x - y = 2$ and $6x - 2y = 9$.

4.2.3. Classify $x - 2y = 5$ and $3x - 6y = 15$.

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4.3 Systems of Inequalities

4.3.1. Does $(1, 3)$ satisfy $y \leq 2x + 1$ and $y > 1$?

4.3.2. For $y < 4 - x$, is the boundary solid or dashed, and which side is shaded?

4.3.3. Use the graph to describe the solution of $y \geq x$ and $y \leq 4 - x$. Are $(1, 2)$ and $(3, 2)$ solutions?

