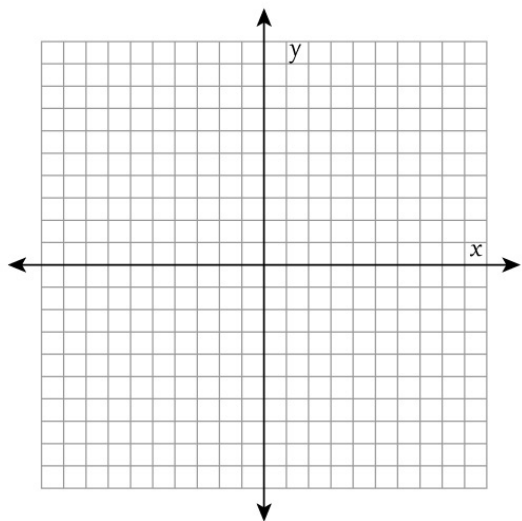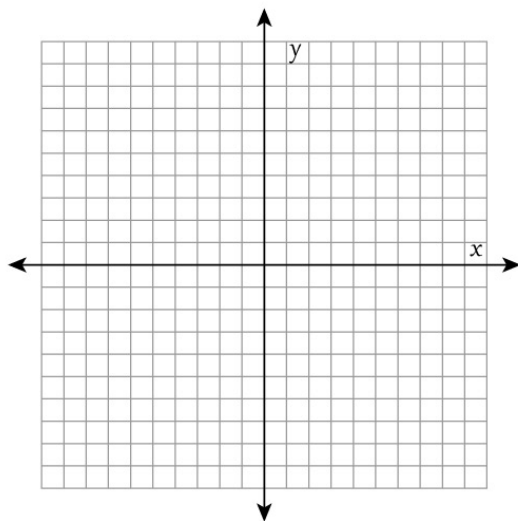# System of Linear Inequalities in Two Variables

Sketch the solution for each system of inequalities. Shade the side of the boundary line where the inequalities are true.
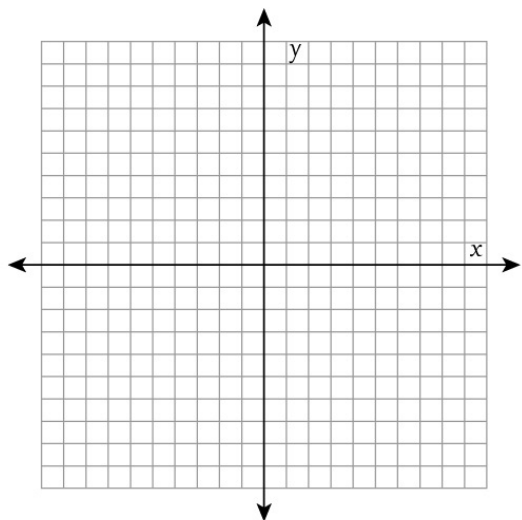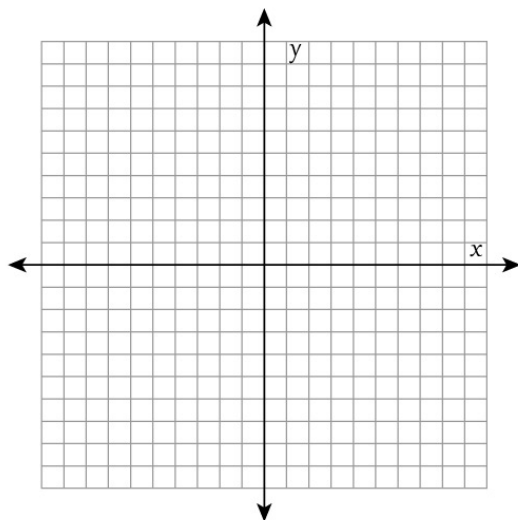
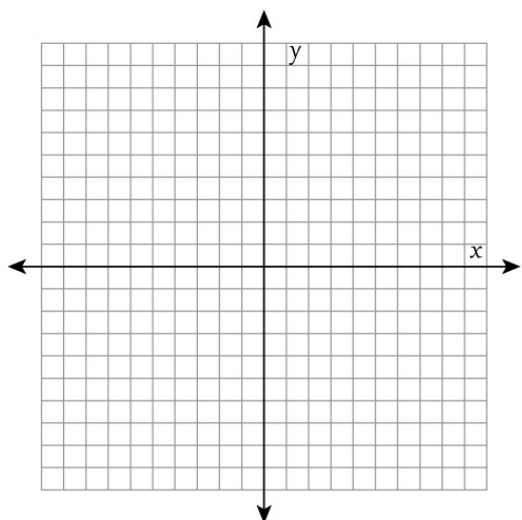1 $y > x - 2$; $y \leq 2x + 2$

2 $y \geq 2x - 1$; $y < x + 1$
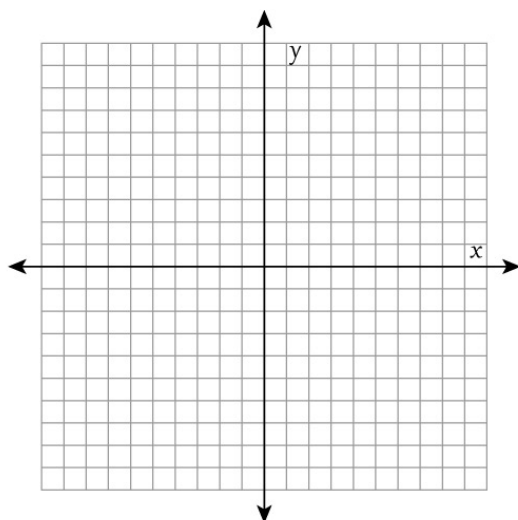
3 $y \leq -\dfrac{1}{4}x + 5$; $3x - 2y \leq 6$

4 $y > 2x - 4$; $y \geq \dfrac{1}{2}x - 1$
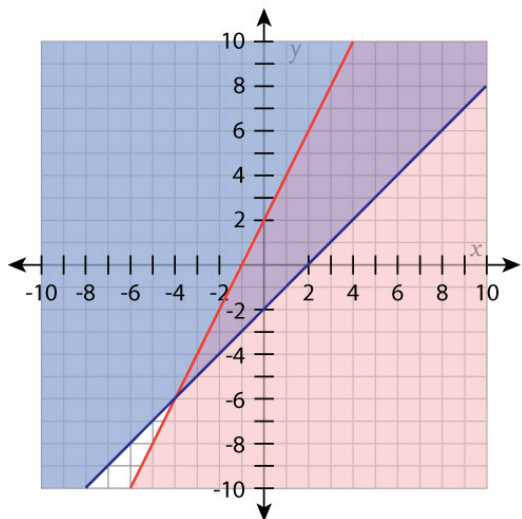
5 $y \geq 3x + 1$; $-3x + y \geq -4$

6 $4x + 3y \geq 12$; $y \leq -\dfrac{4}{3}x + 1$

System of Linear Inequalities in Two Variables

Answers

1. $y > x - 2$; $y \leq 2x + 2$

2. $y \geq 2x - 1$; $y < x + 1$

3. $y \leq -\dfrac{1}{4}x + 5$; $3x - 2y \leq 6$

4. $y > 2x - 4$; $y \geq \dfrac{1}{2}x - 1$

5. $y \geq 3x + 1$; $-3x + y \geq -4$

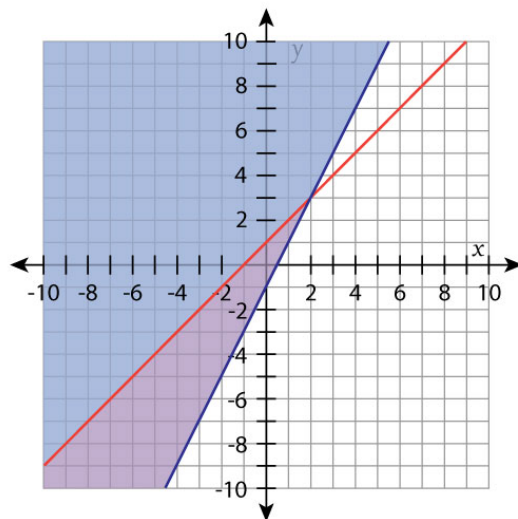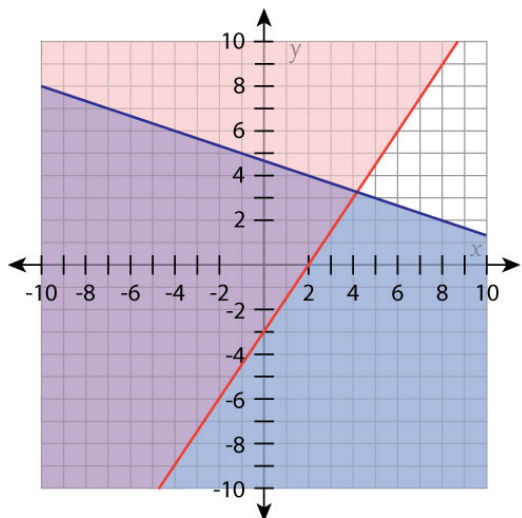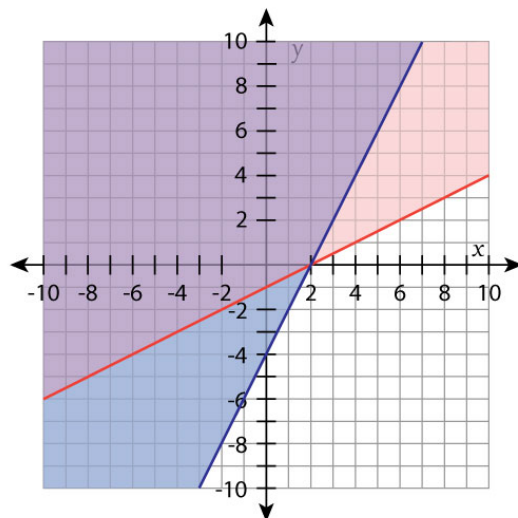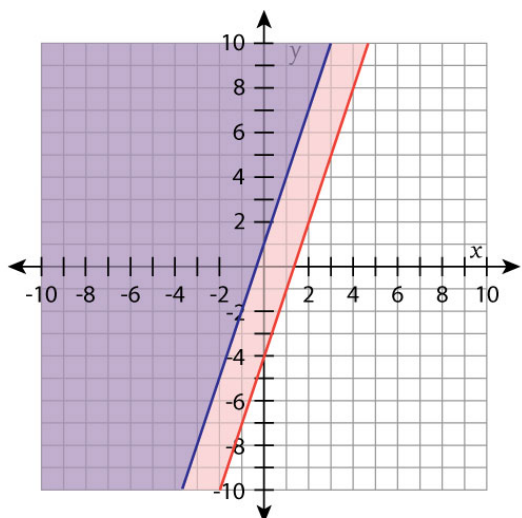6. $4x + 3y \geq 12$; $y \leq -\dfrac{4}{3}x + 1$