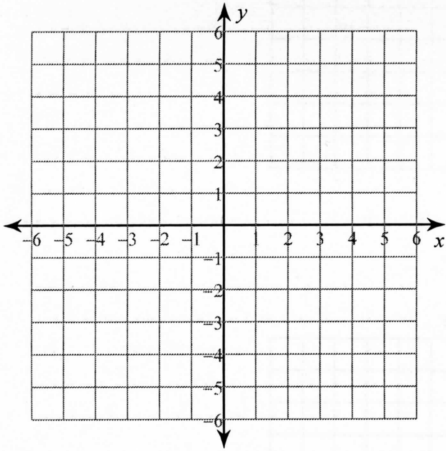


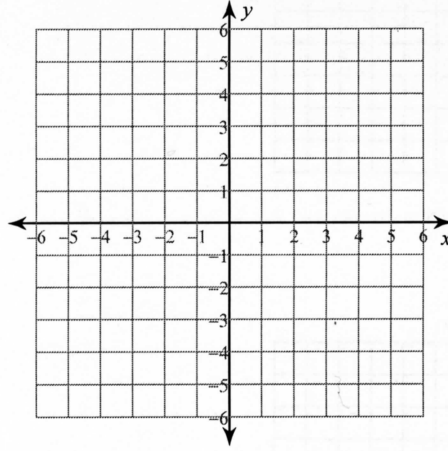
3-10 Graphing Linear Inequalities_hw

Sketch the graph of each linear inequality.

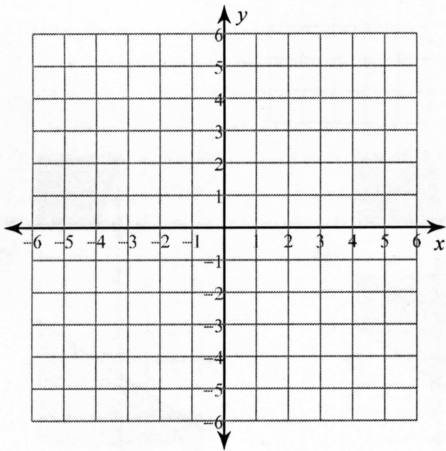
1) $y \geq \frac{5}{2}x - 5$



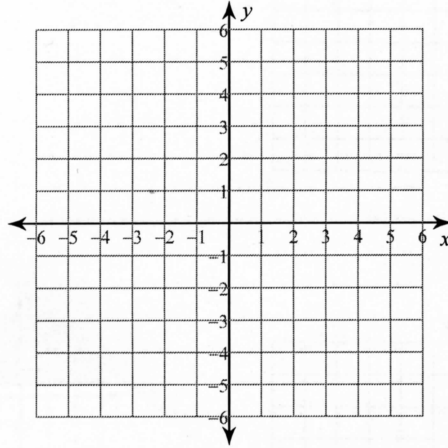
2) $y < -\frac{2}{3}x - 3$



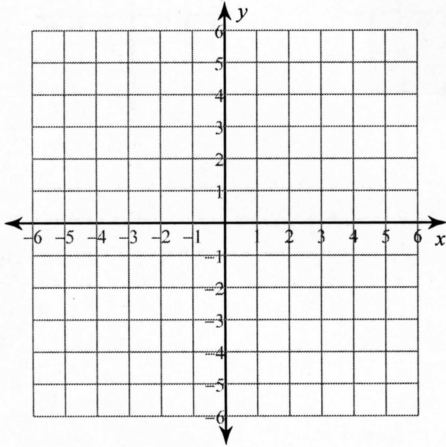
3) $y \leq \frac{7}{5}x + 2$



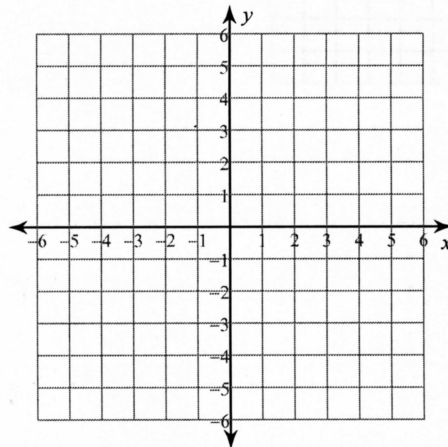
4) $y \geq 3x - 1$



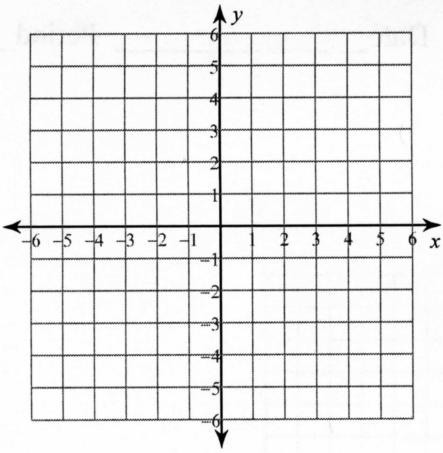
5) $y < -4x - 4$



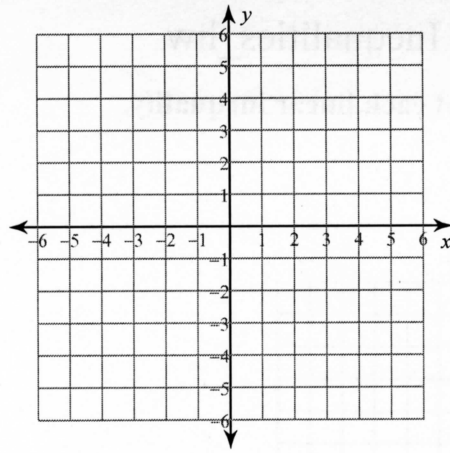
6) $y < \frac{1}{2}x$



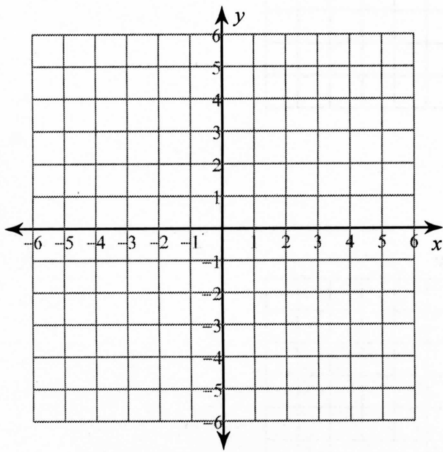
7) $2x + 3y \leq -3$



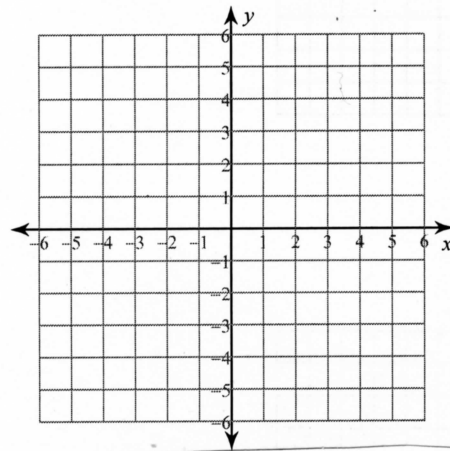
8) $3x + 4y > -8$



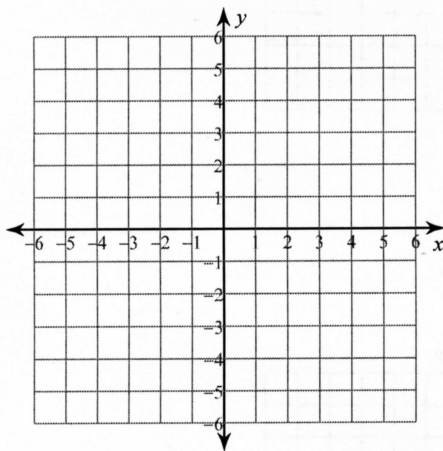
9) $y \geq 1$



10) $x - 2y \leq -10$



11) $2x - y < 5$



A collection of 11 numbered coordinate plane graphs showing the solution sets for the inequalities listed in the previous blocks. Each graph includes a grid and a shaded region representing the solution set.

- 1) $2x - y < 5$: A dashed line with a positive slope is graphed. The region below and to the left of the line is shaded.
- 2) $3x + 4y > -8$: A dashed line with a negative slope is graphed. The region above and to the right of the line is shaded.
- 3) $2x - y < 5$: A solid line with a positive slope is graphed. The region below and to the left of the line is shaded.
- 4) $2x - y < 5$: A solid line with a positive slope is graphed. The region above and to the right of the line is shaded.
- 5) $2x - y < 5$: A dashed line with a positive slope is graphed. The region above and to the right of the line is shaded.
- 6) $2x - y < 5$: A dashed line with a positive slope is graphed. The region below and to the left of the line is shaded.
- 7) $3x + 4y > -8$: A solid line with a negative slope is graphed. The region above and to the right of the line is shaded.
- 8) $3x + 4y > -8$: A dashed line with a negative slope is graphed. The region below and to the left of the line is shaded.
- 9) $2x - y < 5$: A dashed line with a positive slope is graphed. The region below and to the left of the line is shaded.
- 10) $x - 2y \leq -10$: A solid horizontal line is graphed at $y = 5$. The region above the line is shaded.
- 11) $2x + 3y \leq -3$: A dashed line with a negative slope is graphed. The region below and to the left of the line is shaded.