

Section 4.3
Exercises

Suppose $y \leq 3x - 9$. Determine if which these points satisfies the inequality. (More than one point may satisfy the inequality.)

1. (2, 7)
2. (5, 1)
3. (3, 0)
4. (1, -5)
5. (0, 8)

Suppose $2x - 3y < 6$. Determine which of these points satisfies the inequality. (More than one point may satisfy the inequality.)

6. (4, 3)
7. (-5, 1)
8. (3, 0)
9. (0, -1)
10. (1, -5)

Graph each inequality in the coordinate plane.

11. $x > 5$
12. $y \leq -3$
13. $y > 2$
14. $x \leq -1$
15. $y < 3x + 2$
16. $y \geq \frac{3}{4}x - 3$
17. $2x + 4y \leq 8$
18. $x + 2y > 6$
19. $x - 2y < 4$
20. $5x - 4y \leq 20$
21. $2x - 3y \leq 0$
22. $3x \leq 4y$