

Section 9.1 Extra Practice

- Which ordered pairs are solutions to each given inequality?
 - $x - 3y < 18$
A (3, -5) B (0, 0) C (-5, 3) D (5, -5)
 - $0 < 2x - 5y$
A (5, 2) B (2, 5) C (-5, 2) D (2, -5)
 - $x - 6 \leq y$
A (1, 6) B (6, 1) C (-1, 6) D (-1, -6)
- Consider each inequality.
 - Express y in terms of x . Identify the slope and the y -intercept.
 - Indicate whether the boundary should be a solid line or a broken line.
 - Use technology to graph the inequality.
 - $2x - 7y \geq 14$
 - $5 - x + 3y < 0$
 - $y + 4 > 0$
 - $5x + 2y \leq 4$
- Consider each inequality.
 - Determine the x -intercept and the y -intercept of the boundary.
 - Indicate whether the boundary should be a solid line or a broken line.
 - Use technology to graph the inequality.
 - $y < 2x + 5$
 - $x - 5y \geq 25$
 - $3x + y + 6 > 0$
 - $x + 5 < 0$
- Graph each inequality.
 - $y \leq -2x + 7$
 - $3x + y < -9$
 - $x \leq 2y + 8$
 - $4x - 5y \geq 20$
- Ben is buying snacks for his friends. He has \$10.00. The choices are apples for \$0.80 and muffins for \$1.25.
 - Write an inequality in two variables to model this situation. Define your variables.
 - State the restrictions on the variables.
 - Graph the inequality.
 - Why is (5, 4.8) not a solution?

- Determine the inequality that corresponds to each graph.

