

## 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.

