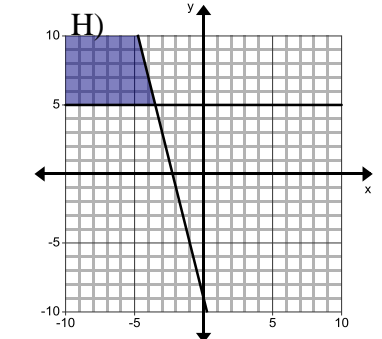
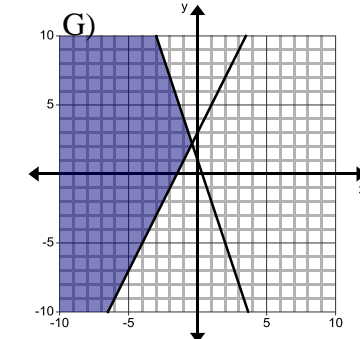
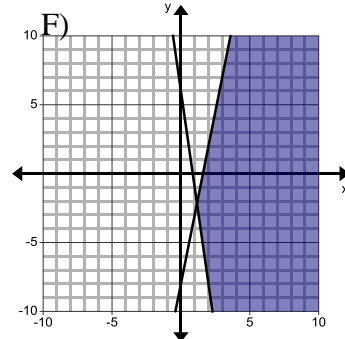
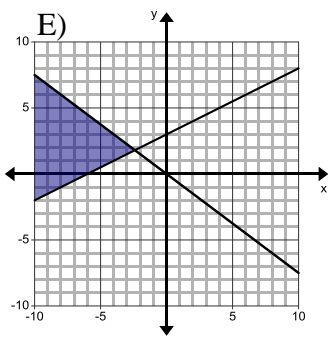
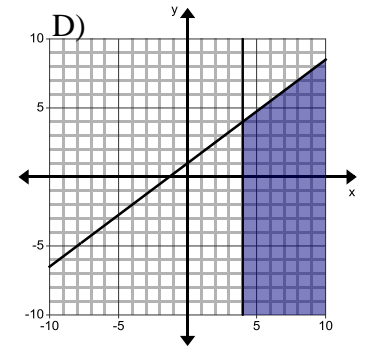
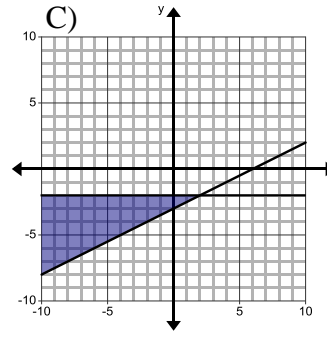
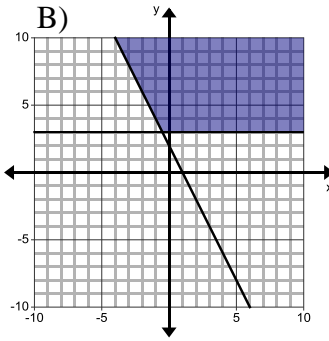
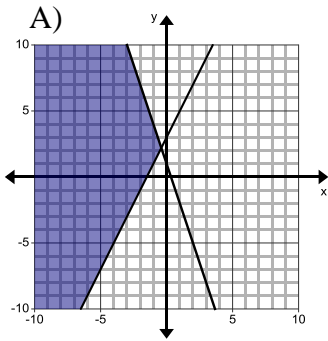


Homework 3.7: Graphing Systems of Inequalities

Directions: Match the system of inequalities to the correct graph.



Equations

Answer

1) $x \geq 4$
 $y < \frac{3}{4}x + 1$

2) $y \geq 2x + 3$
 $y < -3x + 1$

3) $y > 3$
 $y > -2x + 2$

4) $y \leq 5x - 8$
 $y > -7x + 6$

Equations

Answer

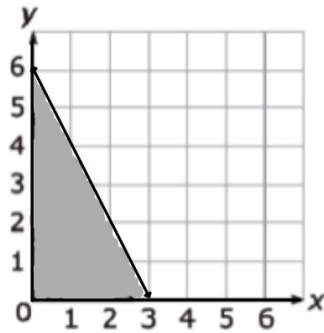
5) $y > 2x + 3$
 $y \leq -3x + 1$

6) $y < -2$
 $y \geq \frac{1}{2}x - 3$

7) $y \geq 5$
 $y < -4x - 9$

8) $y \geq \frac{1}{2}x + 3$
 $y \leq -\frac{3}{4}x$

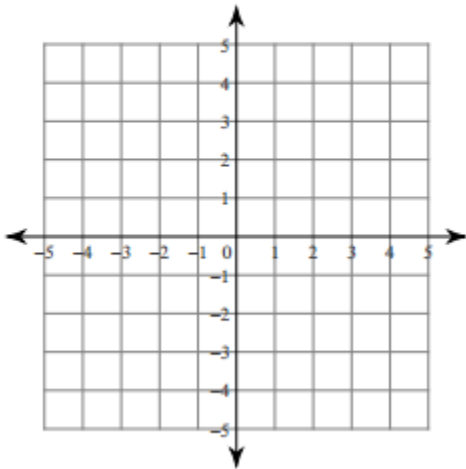
9. Which scenario can be modeled by the graph below?



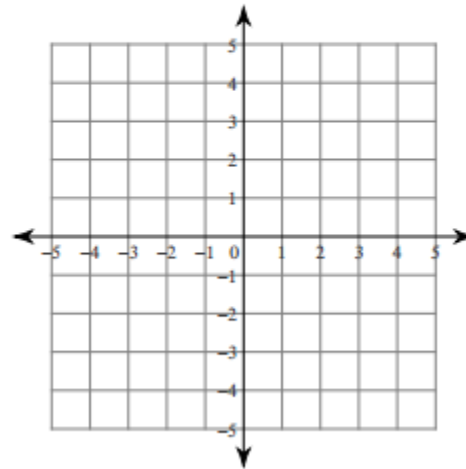
- A. The number of pounds of coffee, y , minus two times the number of pounds of tea, x , is at most 6.
- B. The number of pounds of coffee, y , minus half the number of pounds of tea, x , is at most 6.
- C. The number of pounds of coffee, y , plus two times the number of pounds of tea, x , is at most 6.
- D. The number of pounds of coffee, y , plus half the number of pounds of tea, x , is at most 6.

Sketch the solution to each system of inequalities.

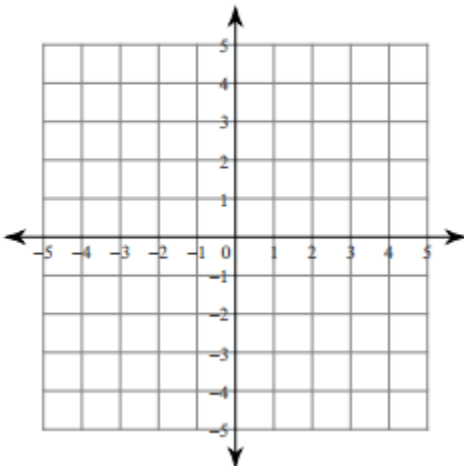
1) $y > 4x - 3$
 $y \geq -2x + 3$



2) $y \geq -5x + 3$
 $y > -2$



11) $3x + y \geq -3$
 $x + 2y \leq 4$



12) $x + y \geq -3$
 $x + y \leq 3$

