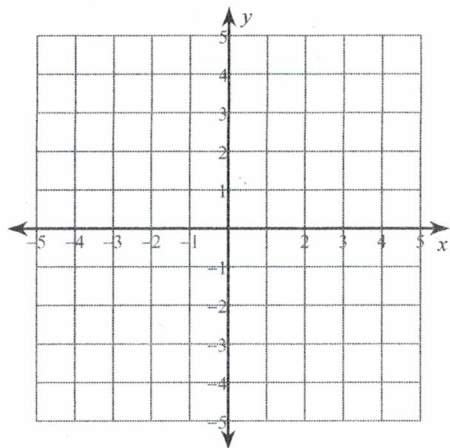


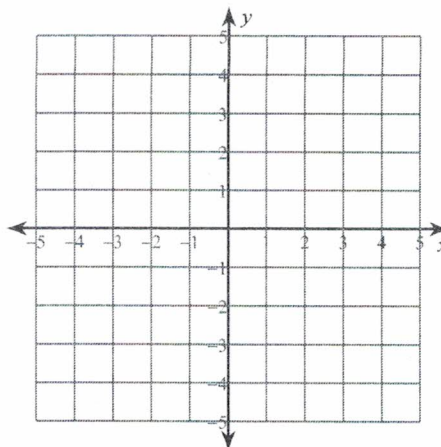
Unit 4 Hw #7 Sect. 4.1 - 4.4

Sketch the solution to each system of inequalities.

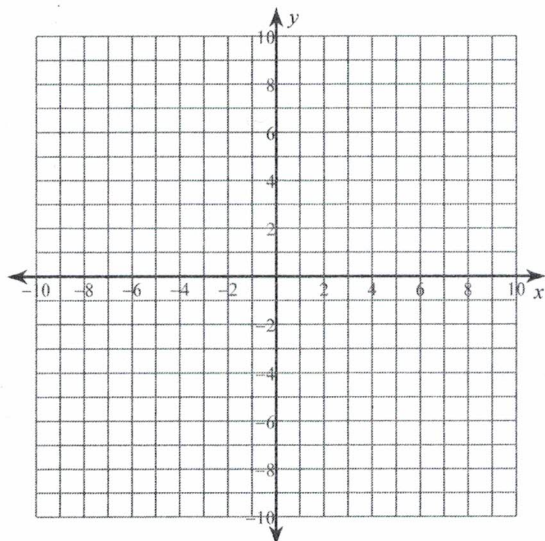
1)  $y \leq -x + 3$   
 $y \leq 3x - 1$



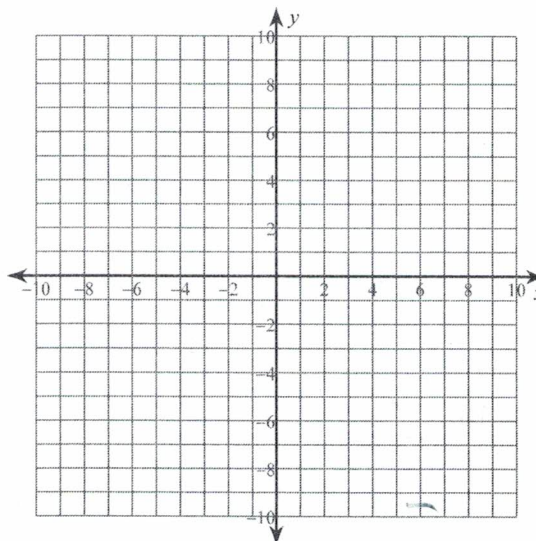
2)  $y > -\frac{1}{3}x - 3$   
 $x > -3$



3)  $x - 4y > 20$   
 $13x - 8y \geq -48$



4)  $x - 4y \leq 12$   
 $9x - 8y \geq -32$



**Solve each system by substitution.**

5)  $y = 4x$   
 $y = 8x - 4$

6)  $9x + 11y = 7$   
 $y = 8$

7)  $-x - 8y = -27$   
 $x + 9y = 31$

8)  $x - 7y = 7$   
 $2x - 14y = 14$

**Solve each system by elimination.**

9)  $-5x - 10y = -25$   
 $5x + 7y = 10$

10)  $-5x + 4y = -25$   
 $-5x - y = -25$

11)  $7x + 3y = -23$   
 $-14x + 6y = 10$

12)  $-20x + 6y = -10$   
 $10x - 3y = 0$