

## Section 6.3 – Systems of Linear Inequalities

### Problem Set 2

**Graph the following inequalities**

1.  $y - x < 3$

2.  $1x + 1y \geq 2$

3.  $-1x \leq -y + 6$

4.  $2x + 1y > 0$

5.  $3x < 2y + 3$

6.  $x \geq -1y + 3$

**Graph the solution of the following systems of linear inequalities.**

7.  $y + x > 3$  and  $x - y > 3$

8.  $1x + 4y \leq 5$  and  $1x - y \leq 0$

9.  $y + 1x < 3$  and  $4y + x > -2$

10.  $2y + 2x \geq 1$  and  $x > 4$

11.  $2x + 3y > 2$  and  $3y + 2x < -1$

12.  $2y + 1x > 0$  and  $-3x + y \geq -2$

13.  $y \geq -4$  and  $x < 0$

14.  $-1x + y > 2$  and  $-1x > -y + 2$

15.  $2x + 1 < -y$  and  $x > 2$

16.  $x + y > 3$  and  $2x + y \leq -1$