

## Section 2.6 – Graphing Relationships

### Problem Set 3

**Graph the two inequalities then find the intersection and union of the sets represented by the graphs.**

1.  $x > 5$  and  $x \leq 8$

2.  $x < 6$  and  $x > 0$

3.  $y > 4$  and  $y \leq -6$

4.  $z > 8$  and  $z > 0$  and  $z \leq -4$

5.  $x > 2$  and  $x < -4$

6.  $x \leq 6$  and  $x > -4$

7.  $x < 7$  and  $x > 1$

8.  $x \geq 0$  and  $x < -3$

9.  $x > 1$  and  $x < 12$

10.  $x > -4$  and  $x > -5$

11.  $x > 1$  and  $x \geq 3$  and  $x < 2$

12.  $x \leq -1$  and  $x > 0$  and  $x < 6$

13.  $x \leq 4$  and  $x > 1$  and  $x > -3$

14.  $x \geq -2$  and  $x \geq 6$  and  $x < 3$