

Section 6.3 – Systems of Linear Inequalities

Problem Set 3

Graph the following inequalities

1. $y - x < 4$

2. $4x + 4y \geq 6$

3. $-4x \leq -y + 9$

4. $5x + 4y > 0$

5. $6x < 5y + 4$

6. $x \geq -4y + 6$

Graph the solution of the following systems of linear inequalities.

7. $y + x > 6$ and $x - y > 6$

8. $4x + 7y \leq 8$ and $4x - y \leq 0$

9. $y + 4x < 6$ and $7y + x > -5$

10. $6y + 5x \geq 4$ and $x > 8$

11. $6x + 6y > 3$ and $8y + 6x < -4$

12. $6y + 4x > 0$ and $-7x + y \geq -3$

13. $y \geq -3$ and $x < 0$

14. $-4x + y > 3$ and $-5x > -y + 7$

15. $7x + 4 < -y$ and $x > 3$

16. $x + y > 9$ and $4x + y \leq -4$