

Section 6.3 – Systems of Linear Inequalities

Problem Set 1

Graph the following inequalities

1. $y - x < 2$

2. $3x + 3y \geq 4$

3. $-3x \leq -y + 8$

4. $4x + 3y > 0$

5. $5x < 4y + 3$

6. $x \geq -3y + 5$

Graph the solution of the following systems of linear inequalities.

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

8. $3x + 6y \leq 7$ and $3x - y \leq 0$

9. $y + 3x < 5$ and $6y + x > -4$

10. $4y + 3x \geq 3$ and $x > 5$

11. $4x + 5y > 2$ and $5y + 4x < -3$

12. $5y + 3x > 0$ and $-6x + y \geq -2$

13. $y \geq -2$ and $x < 0$

14. $-3x + y > 2$ and $-3x > -y + 4$

15. $4x + 3 < -y$ and $x > 2$

16. $x + y > 5$ and $4x + y \leq -4$