

# Handout 3: Graphing and Solving Systems of Linear Inequalities

Graph the following systems of linear inequalities.

1.  $4x - 5y \leq 1$  and  $2x - y \geq 2$ .

6.  $5x - 5y > 1$  and  $4x + y < 8$ .

7.  $y - x \leq -1$  and  $x - 3y \leq -1$ .

2.  $x - y \geq 4$  and  $2x + y < -7$ .

8.  $2x + 3y > 4$  and  $2x - 3y < 4$ .

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

9.  $2y - x \leq -2$  and  $x + y < 1$ .

4.  $3x > 2$  and  $2x + 5y \leq -2$ .

5.  $4y \leq -8$  and  $5y - 2x \leq -3$

10.  $x + y > 3$  and  $x + 3y > 3$ .