

Q1 HW5 *All Work On Looseleaf

Date_____ Period_____

Solve each system by substitution.**EBS**

$$\begin{aligned} 1) \quad & -8x + 2y = 22 \\ & x - 4y = 1 \end{aligned}$$

$$\begin{aligned} 2) \quad & 5x + 7y = 8 \\ & -5x + y = -16 \end{aligned}$$

$$\begin{aligned} 3) \quad & 8x + 2y = 2 \\ & 2x - 2y = 8 \end{aligned}$$

$$\begin{aligned} 4) \quad & 7x - 3y = 13 \\ & -3x - 5y = 7 \end{aligned}$$

Solve each system by elimination.**EBA**

$$\begin{aligned} 5) \quad & -3x + 2y = -7 \\ & -8x - 2y = -4 \end{aligned}$$

$$\begin{aligned} 6) \quad & 10x + 6y = 16 \\ & -10x + 4y = -6 \end{aligned}$$

$$\begin{aligned} 7) \quad & -7x - 6y = 23 \\ & -3x + y = -8 \end{aligned}$$

$$\begin{aligned} 8) \quad & -x - 9y = -20 \\ & 6x + 18y = 12 \end{aligned}$$

$$\begin{aligned} 9) \quad & 8x - 4y = -16 \\ & -10x + 3y = 20 \end{aligned}$$

$$\begin{aligned} 10) \quad & -9x - 8y = 29 \\ & -2x + 5y = 20 \end{aligned}$$

Graph the solution to each system of inequalities.**Shade the solution region neatly!**

$$\begin{aligned} 11) \quad & y < -4x - 3 \\ & y \geq x + 2 \end{aligned}$$

$$\begin{aligned} 12) \quad & y < -\frac{1}{3}x - 2 \\ & y \leq -\frac{4}{3}x + 1 \end{aligned}$$

$$\begin{aligned} 13) \quad & 2x + y \geq -3 \\ & 4x - y \leq -3 \end{aligned}$$

$$\begin{aligned} 14) \quad & 3x + y \leq 3 \\ & x + 2y \leq -4 \end{aligned}$$

Solve each inequality and graph its solution.

$$15) \quad \frac{|x - 4|}{7} < 1$$