

Key

Math 1

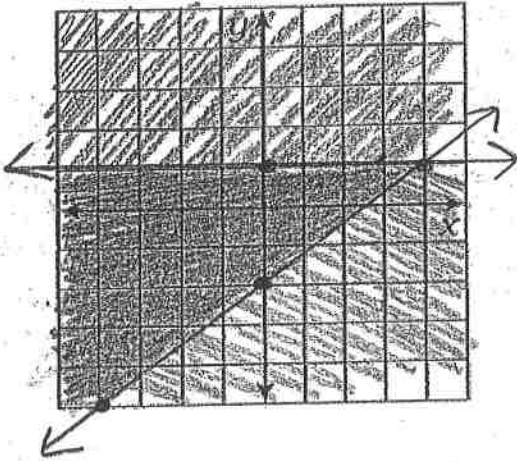
Name: KEY 2/12

US.5 LA Graphing Systems of Inequalities PRACTICE

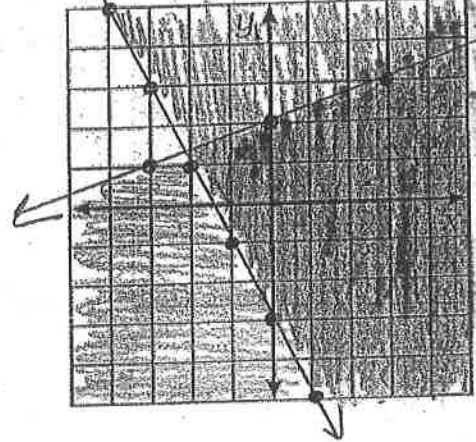
3-6 HW

Directions: Graph the following systems of inequalities and shade the feasible region.

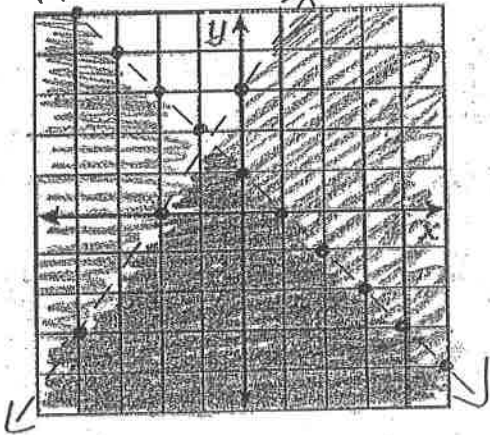
1  $y \geq \frac{3}{4}x - 2$   
 $y \leq 1$



2  $y \geq -2x - 3$   
 $y \leq \frac{1}{9}x + 2$

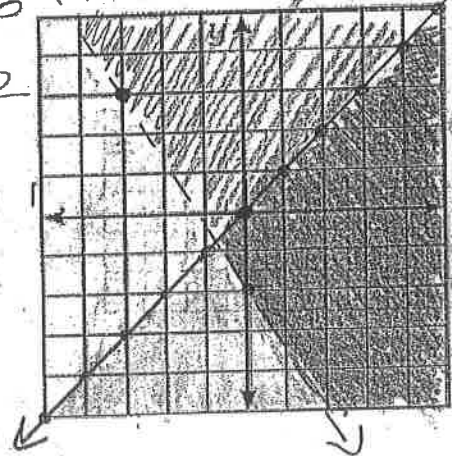


3  $y < \frac{3}{2}x + 3$   
 $y < -x + 1$



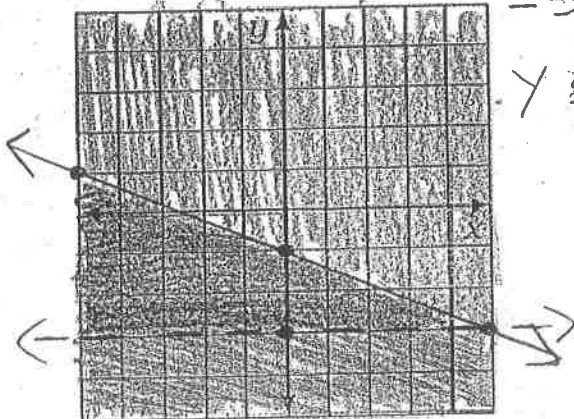
4  $y \leq x$   
 $5x + 3y > -6$

$3y > -5x - 6$   
 $y > -\frac{5}{3}x - 2$



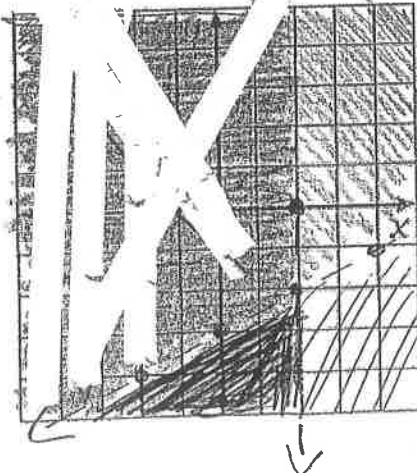
5  $y + 3 > 0$   
 $-2x - 5y \geq 5$

$y > -3$   
 $-5y \geq 2x + 5$   
 $y \leq -\frac{2}{5}x - 1$



6  $x < 2$   
 $x - 2y > 0$

$-2y > -x + 6$   
 $y > \frac{x}{2} - 3$   
 $y < \frac{1}{2}x - 3$



$$8x + 12y < 24$$

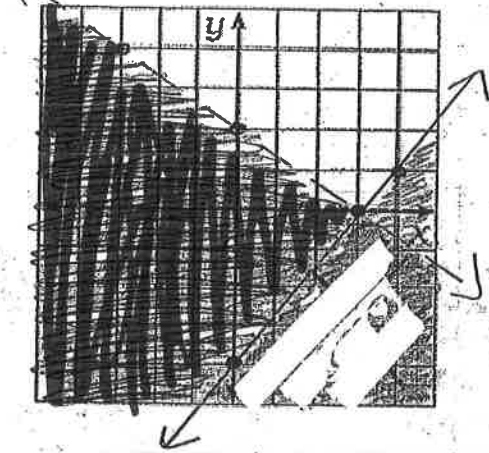
$$12y < -8x + 24$$

with 3-2

$$y < -\frac{2}{3}x + 2$$

7.  $8x + 12y < 24$

$35x - 20y \leq 80$



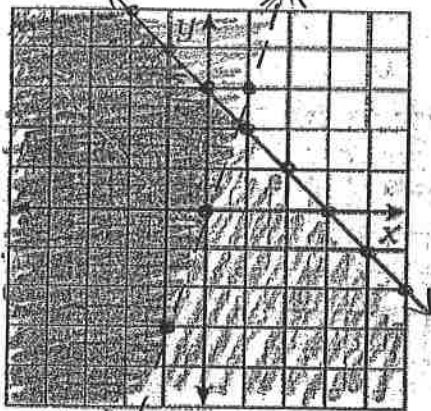
$$35x - 20y \leq 80$$

$$-20y \leq -35x + 80$$

$$y \leq \frac{5}{4}x - 4$$

8.  $10x + 10y \leq 30$

$y - 3x > 0$



$$10x + 10y \leq 30$$

$$10y \leq -10x + 30$$

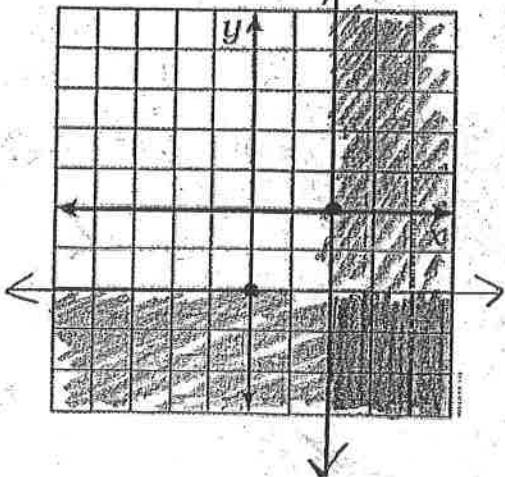
$$y \leq -x + 3$$

$$y - 3x > 0$$

$$y > 3x$$

9.  $y + 2 \leq 0$

$2 - x \leq 0$



$$y + 2 \leq 0$$

$$y \leq -2$$

$$x = 2$$

$$2 - x \leq 0$$

$$-x \leq -2$$

$$x \geq 2$$