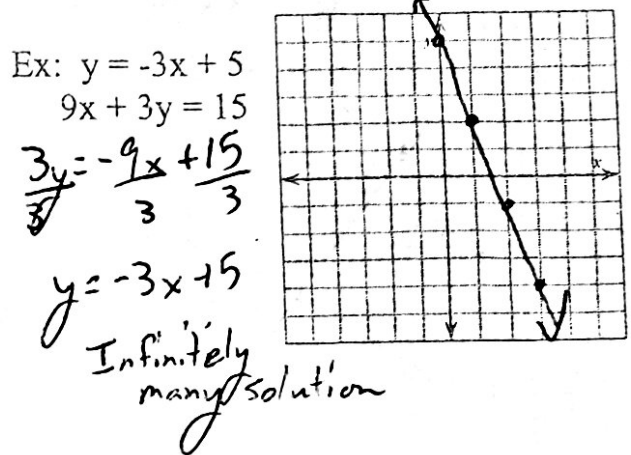
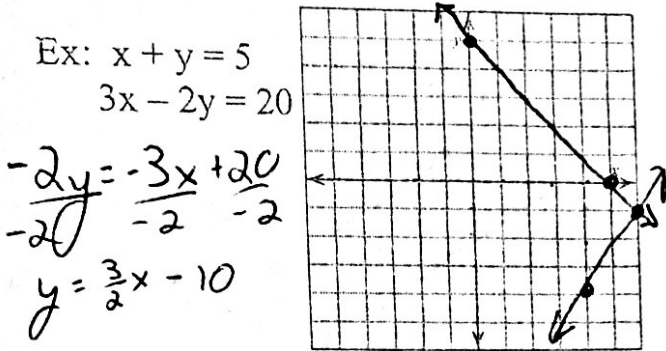
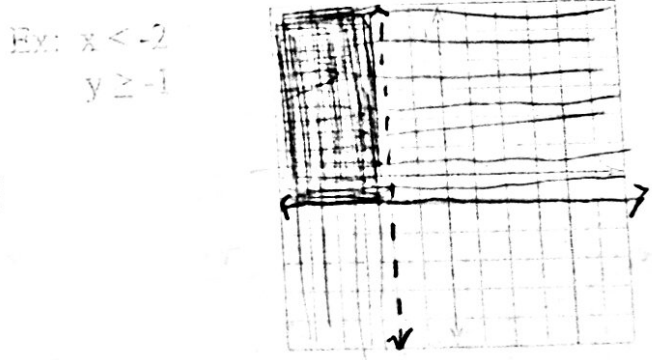
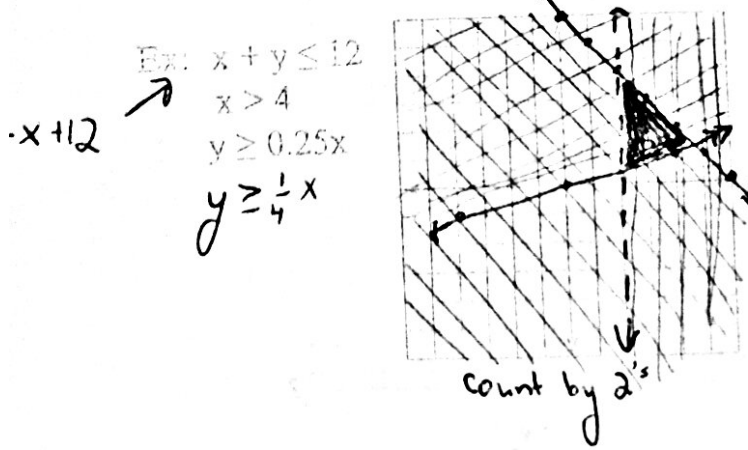
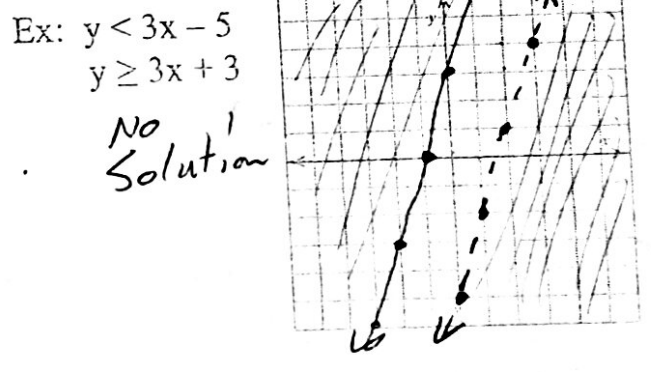
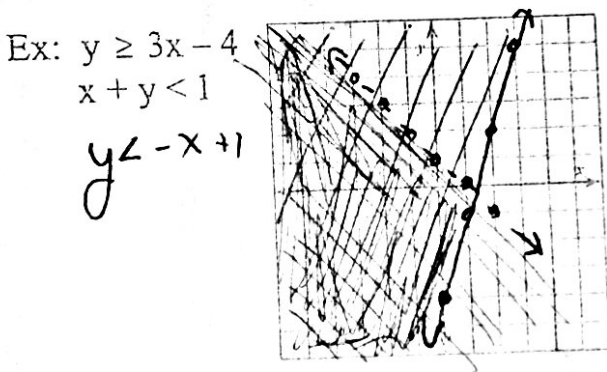


Linear Systems

System = 2 equations graphed on the same set of axis
 Solution = the point where the 2 equations intersect



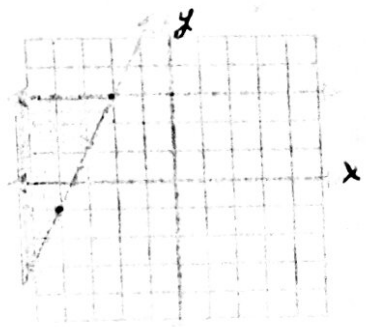
Systems of Linear Inequalities:



Write a system of inequalities from the graph.

$y - 3 = 2(x - -2)$
 $y - 3 = 2x + 4$
 $y + 3 = 2x + 7$
 $y = 2x + 4$

$y < 3$
 $y \geq 2x + 7$

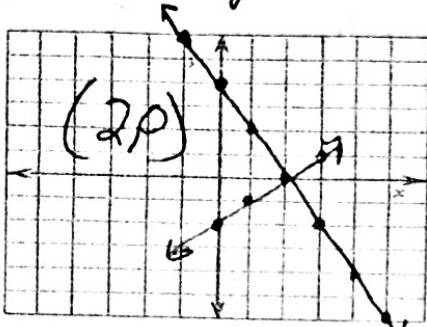


Linear Equation and Inequality Systems Practice

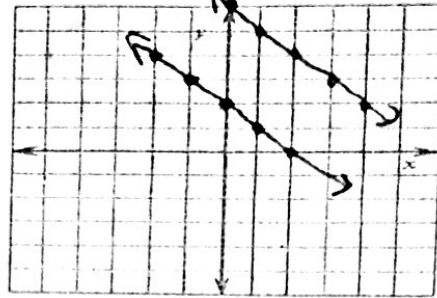
Solve each system of inequalities by graphing. Shade your solution in another color.

1. $2x + y = 4$ $y = -2x + 4$
 $x - y = 2$ $y = x - 2$

(2,0)



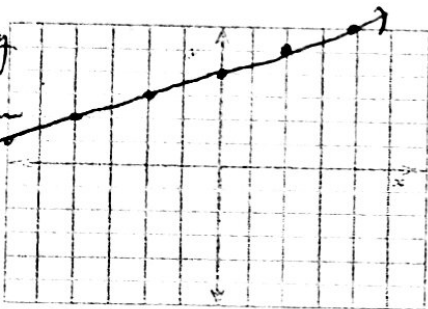
2. $x + y = 2$ $y = -x + 2$
 $x + y = 6$ $y = -x + 6$



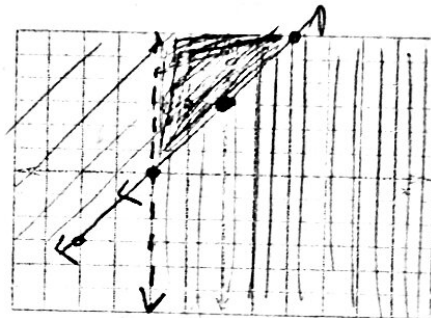
No Solution

3. $2y - 8 = x$ $2y = x + 8$
 $y = \frac{1}{2}x + 4$ $y = \frac{1}{2}x + 4$

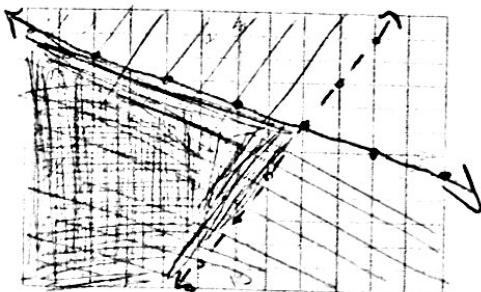
Infinitely many solutions



4. $x > -2$
 $2y \geq 3x + 6$ $y \geq \frac{3}{2}x + 3$



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



6. $y + 1 < -x$ $y < -x - 1$
 $y \geq 1$

