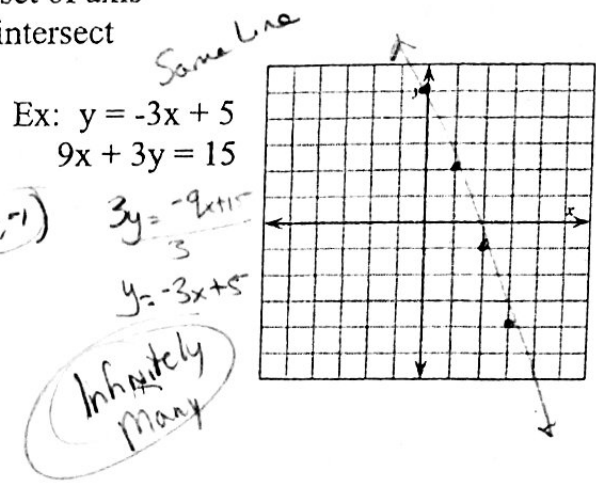
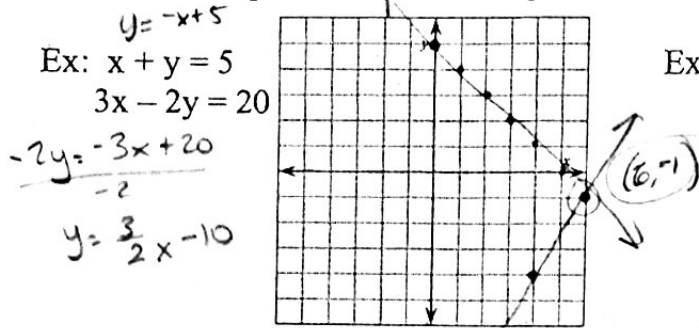


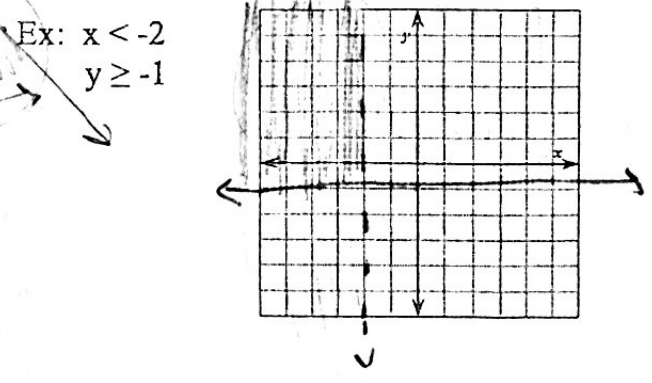
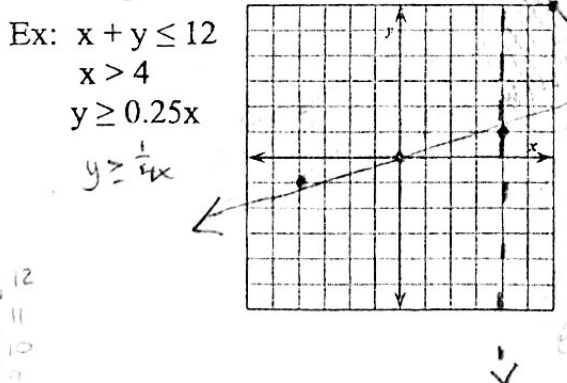
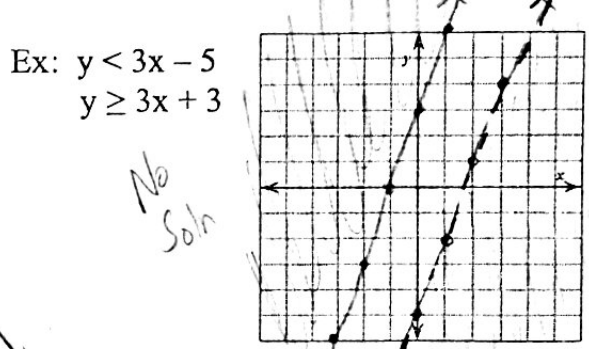
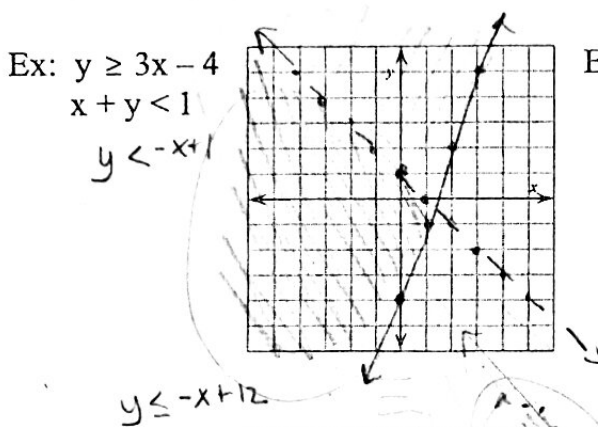
Linear Systems

System = 2 equations graphed on the same set of axis

Solution = the point where the 2 equations intersect

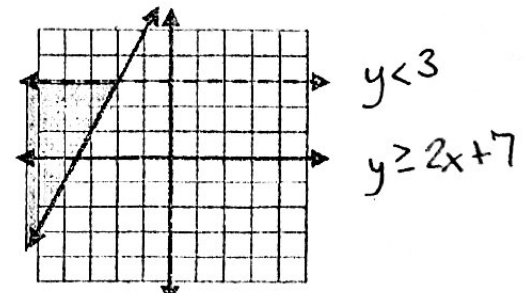


Systems of Linear Inequalities:



0, 12
 1, 11
 2, 10
 3, 9
 4, 8
 5, 7
 6, 6
 7, 5
 8, 4
 9, 3
 10, 2
 11, 1
 12, 0

Write a system of inequalities from the graph.

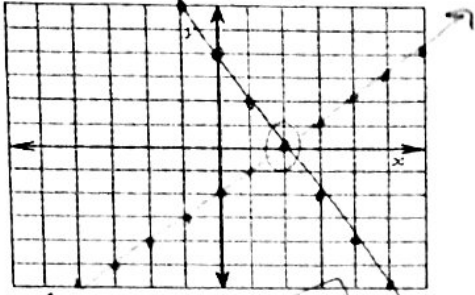


Linear Equation and Inequality Systems Practice

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

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

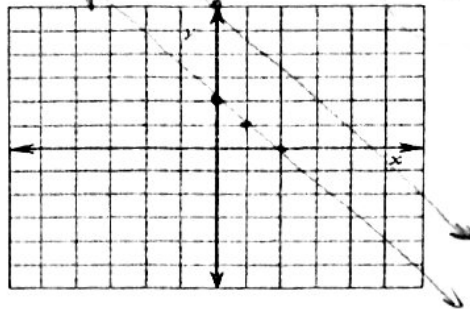
$y = -2x + 4$
 $-y = -x + 2$
 $y = x - 2$



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

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

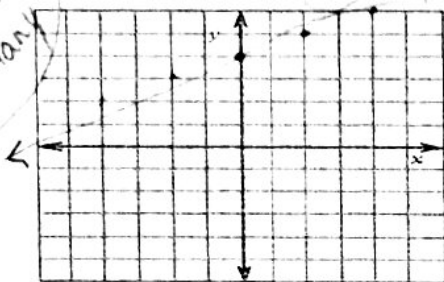
// Lines
 No Soln



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

$(2, 0)$
 $2y = x + 8$
 $y = \frac{1}{2}x + 4$

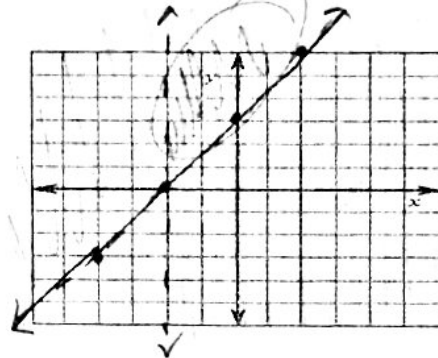
Infinite
 Many



4. $x > -2$

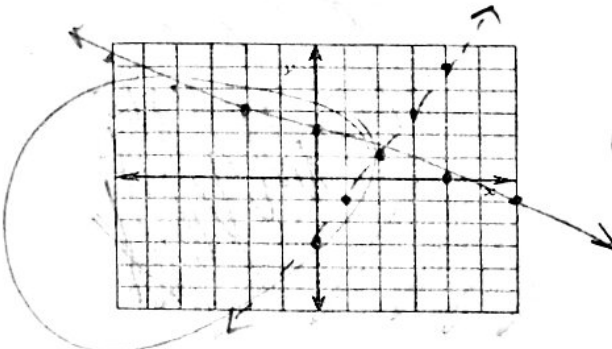
$2y \geq 3x + 6$

$y \geq \frac{3}{2}x + 3$



5. $y > 2x - 3$

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



6. $y + 1 < -x$

$y < -x - 1$

$y \geq 1$

