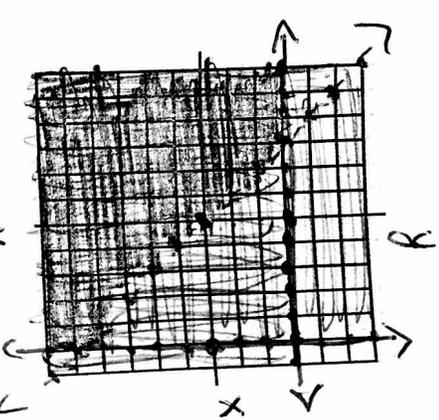


EX3:

Solve the system of inequalities by graphing:
 $-y > x$
 $y \leq 3$
 $x \leq 5$

$-y > x$
 $y < -x$



1. Graph Systems of Inequalities

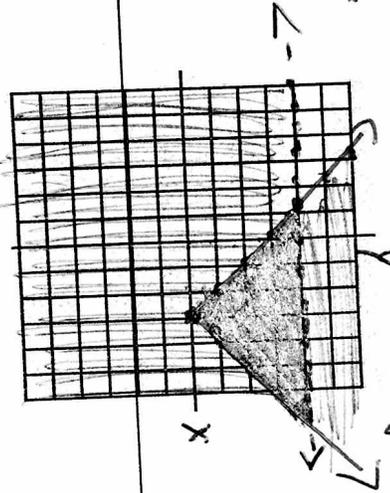
To solve a system of inequalities we need to find the ordered pairs that satisfy all of the inequalities of the system. The solution is their intersecting region. (Where they overlap)

N21

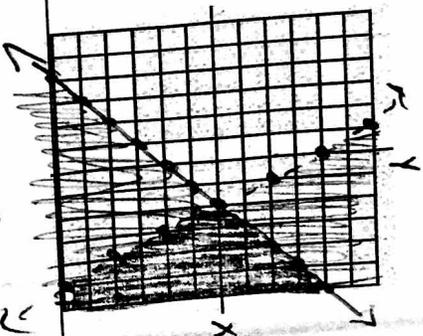
EX4:

Solve the system of inequalities by graphing:
 $y < 4$
 $y \geq |x-3|$

$y \geq |x-3|$
(3,0) vertex



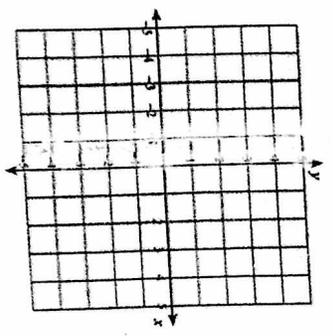
EX1:
Solve the system of inequalities by graphing:
 $y > -2x+4$
 $y \leq x-2$
 $\geq \{ \text{dotted}$
 $y > =$ shade up
 $y < =$ shade down



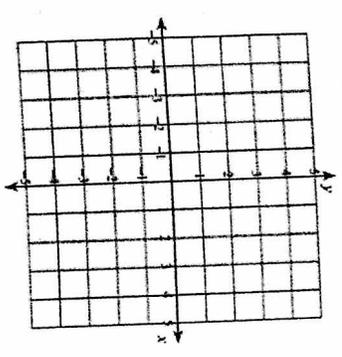
Homework - M3 U2 Systems of Ineq

Graph the following Systems of Inequalities:

4) $x \leq -3$
 $y < \frac{5}{3}x + 2$



5) $3x + 2y \geq -2$
 $x + 2y \leq 2$



EX2:

Solve the system of inequalities by graphing:
 $y \leq 2x-1$
 $x-2y > -4$

Purple
More
Green
less
 $x-2y > -4$
 $y < \frac{1}{2}x + 2$

