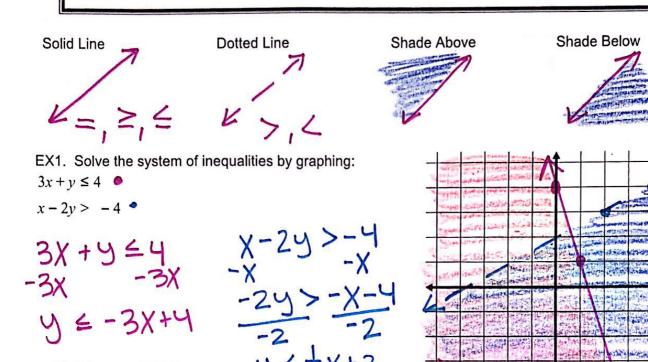
## **GUIDED NOTES: Solve Systems of Inequalities**

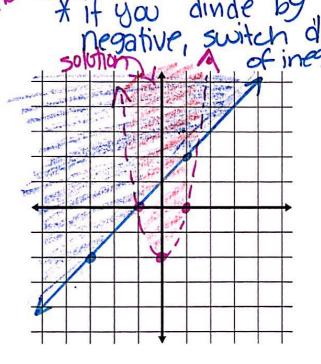
To solve a system of inequalities, we need to find the ordered pairs that satisfy all of the inequalities of the system. The solution is their <u>YEGION</u> of intersection.



EX2. Solve the system of inequalities by graphing:

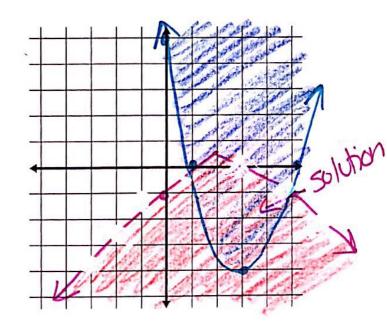
$$y > 2x^2 - 2$$

$$y > x + 1$$



EX3. Solve the system of inequalities by graphing:

$$y < -3 \begin{vmatrix} 2 & x - 1 \end{vmatrix} + 2$$
  
 $y + 4 \ge (x - 3)^2$   
 $-4$   
 $y \ge (x - 3)^2 - 4$ 



EX4. Solve the system of inequalities by graphing:

$$\begin{array}{ccc}
-y > x & & & & & \\
y \le 3 & & & & & \\
x \le 5 & & & & & \\
\end{array}$$

