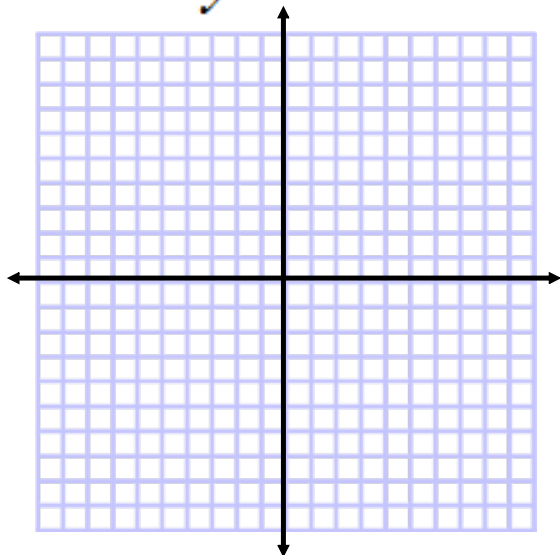


Write each in slope intercept form

$$3x + 8y = 48$$

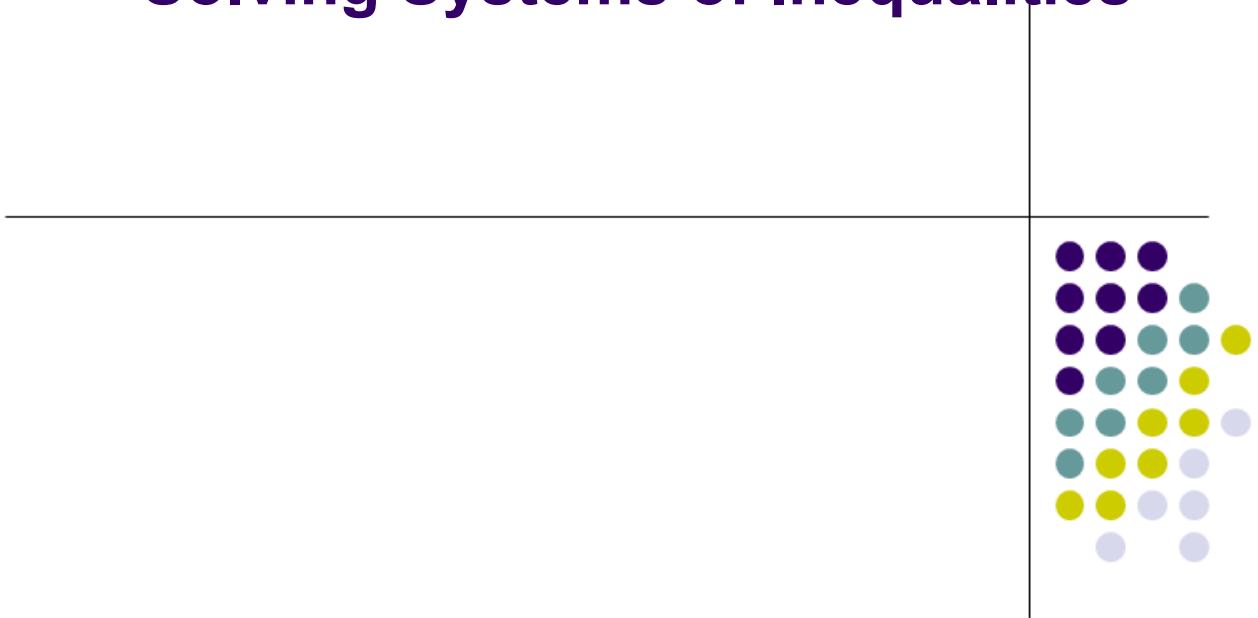
$$7x + 4y = -20$$



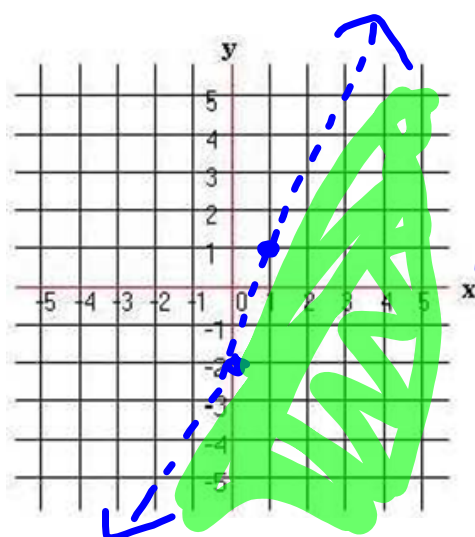
Graph and find the solution

classify the solution

Solving Systems of Inequalities



$$y < 3x - 2$$



① decide solid
or dotted

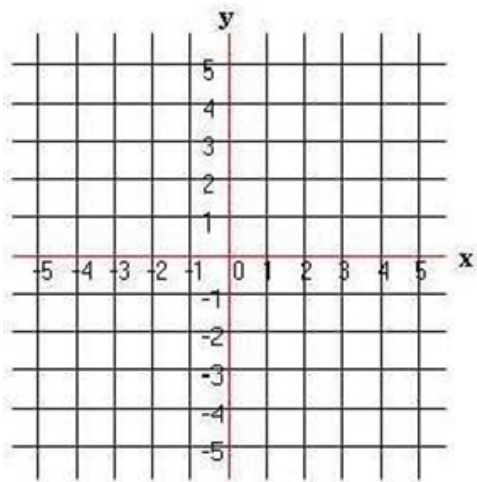
$\geq \leq$ solid
 $> <$ dotted



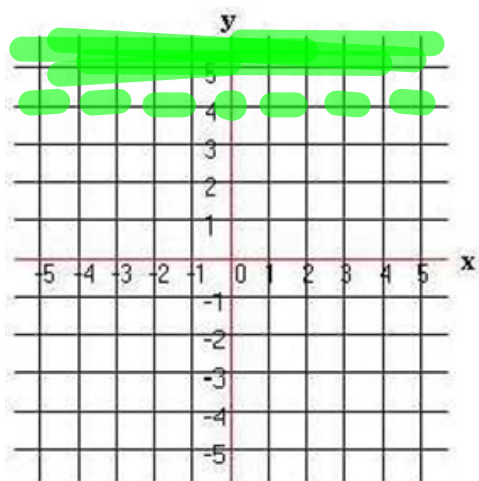
② Graph

③ Shade

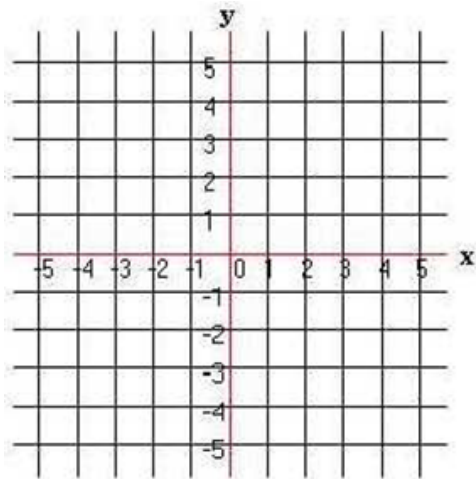
$$y \geq \frac{2}{3}x + 1$$



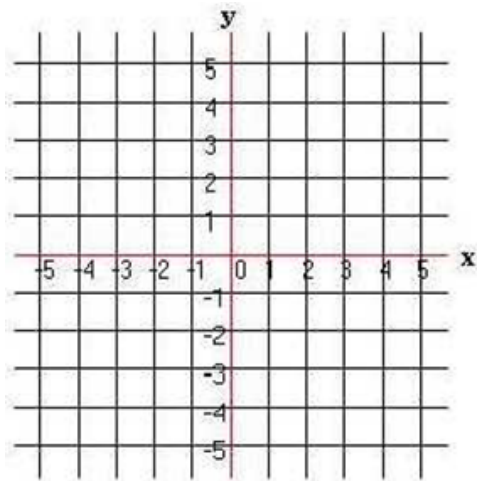
$$y > 4$$

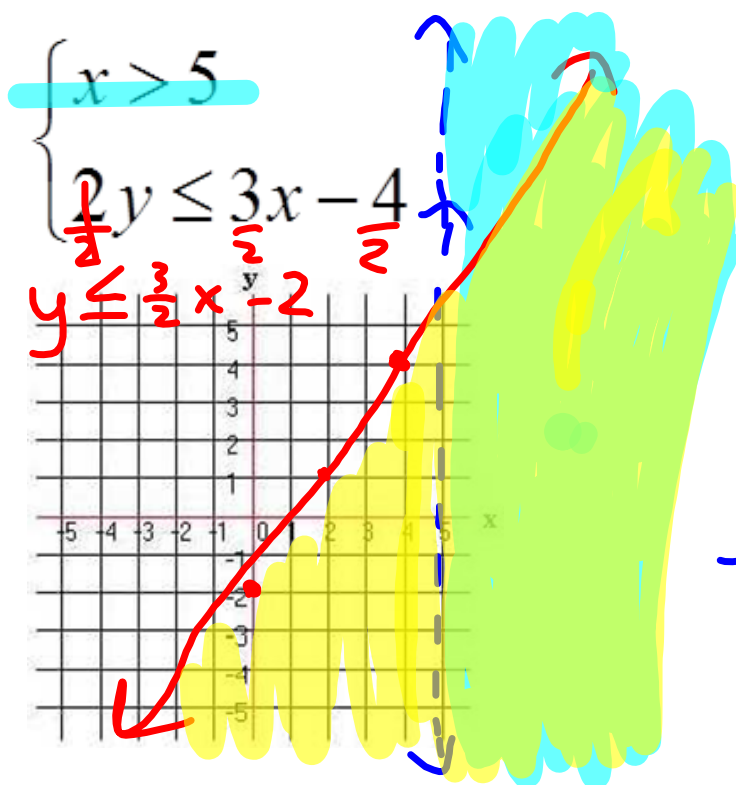


$$2x - 4y > 12$$



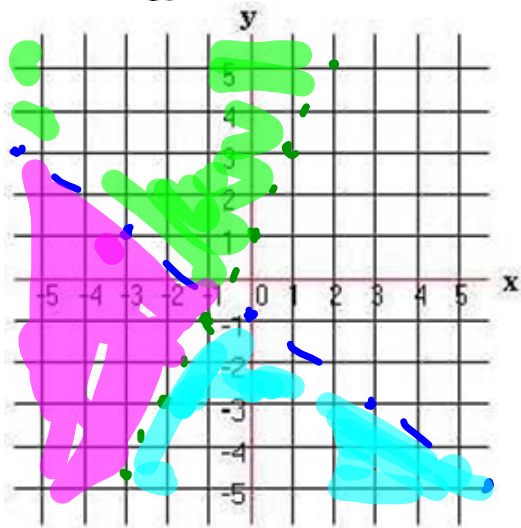
$$x \leq -3$$



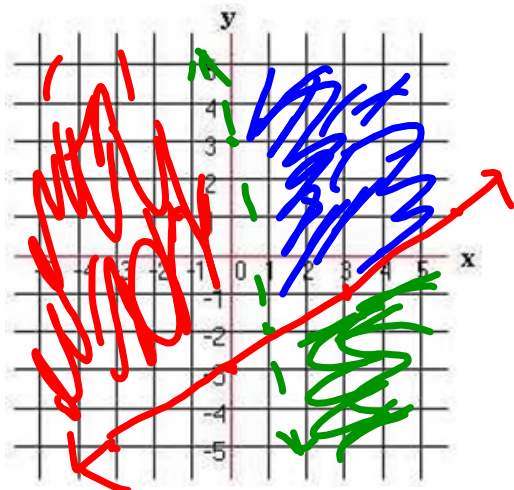


The solution set is where the shaded areas overlap

$$\begin{cases} y > 2x + 1 \\ y < -\frac{2}{3}x - 1 \end{cases}$$



$$\begin{cases} 2x - 3y \leq 9 & y \geq \frac{2}{3}x - 3 \\ 5x + y > 3 & y > -5x + 3 \end{cases}$$



HW - Worksheet

