

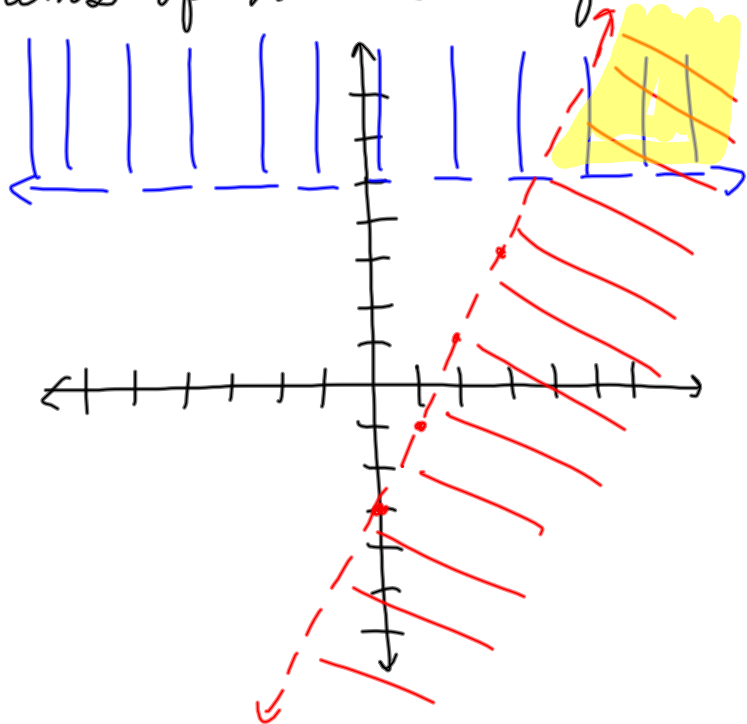
Sec. 6.6 Systems of Linear Inequalities

Problem 1:

$$\textcircled{1} \quad y < 2x - 3$$

$$\textcircled{2} \quad y > 5$$

Hoy

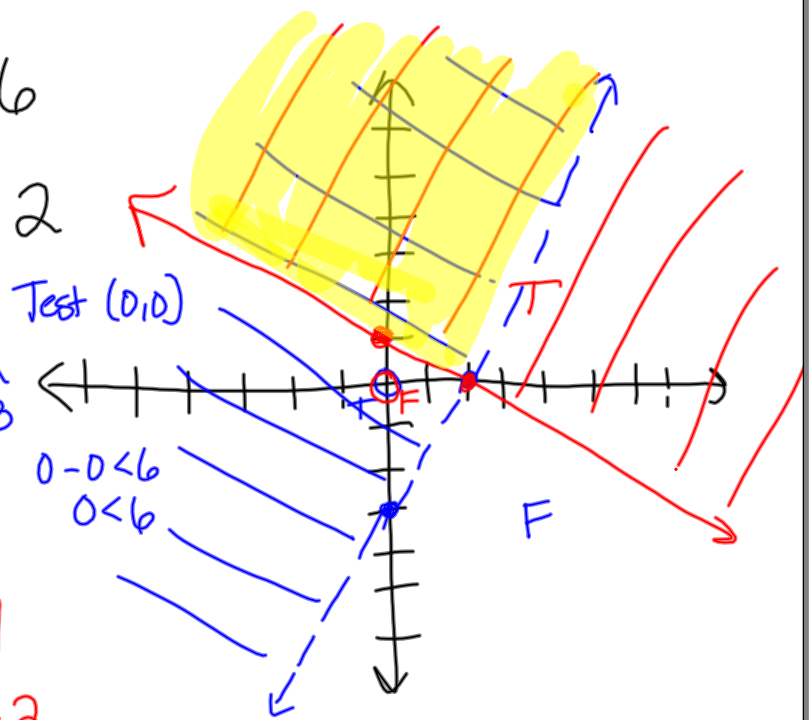


b. ① $3x - 2y < 6$

② $x + 2y \geq 2$

Make $y=0$
 x -int: $3x = 6 \quad x = 2$
 y -int: $-2y = 6 \quad y = -3$
 Make $x=0$

x -int: $x = 2$
 y -int: $2y = 2 \rightarrow y = 1$
 $(0,0) \rightarrow 0 + 0 \geq 2$
 $0 \geq 2$

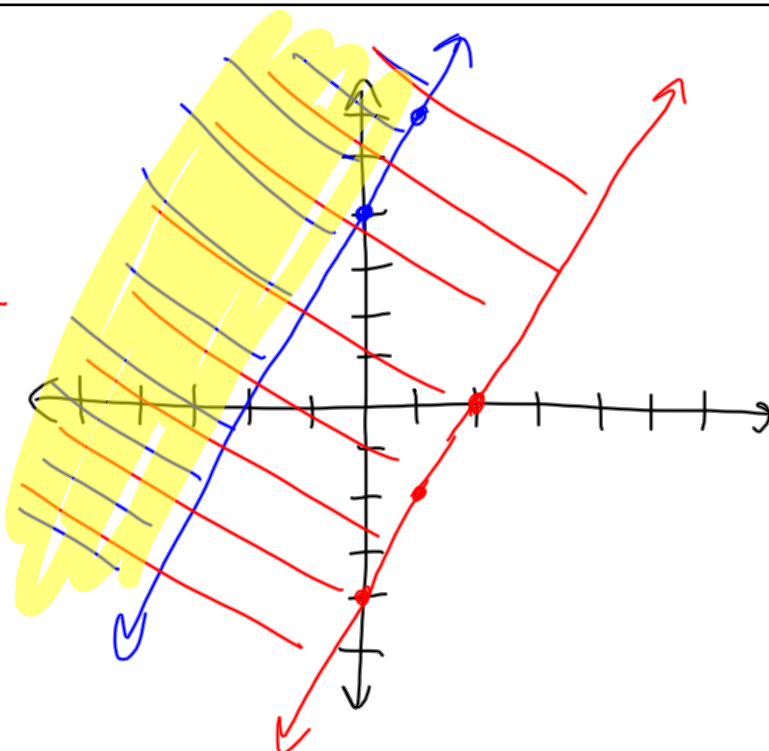


$$C. \textcircled{1} y \geq 2x + 4$$

$$2x - y \leq 4$$

$$\begin{array}{r} -2x \\ \hline -y \leq -2x + 4 \\ \hline -1 \quad -1 \quad -1 \end{array}$$

$$y \geq 2x - 4$$



d. Write the system of inequalities:

