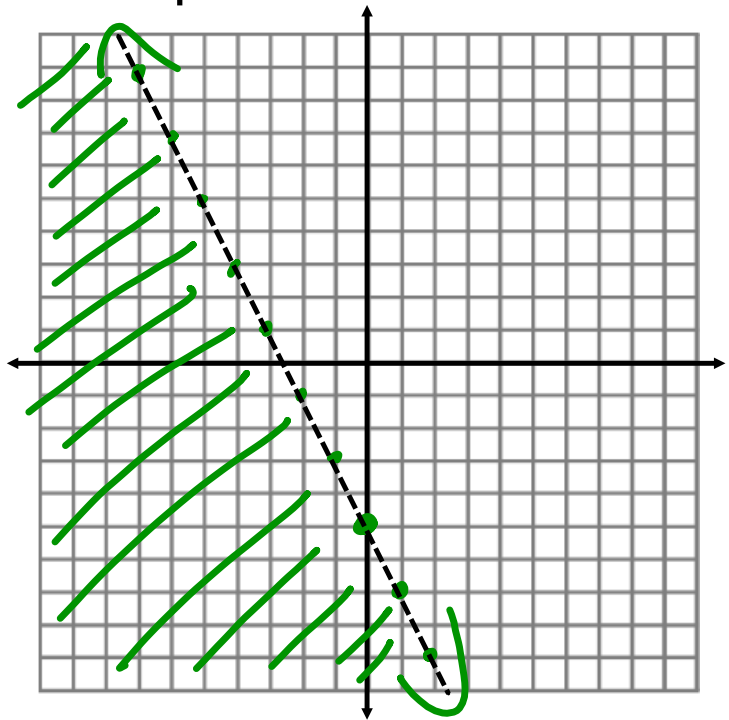


HW: Systems of Linear Inequalities/2-24 even

Warm up:

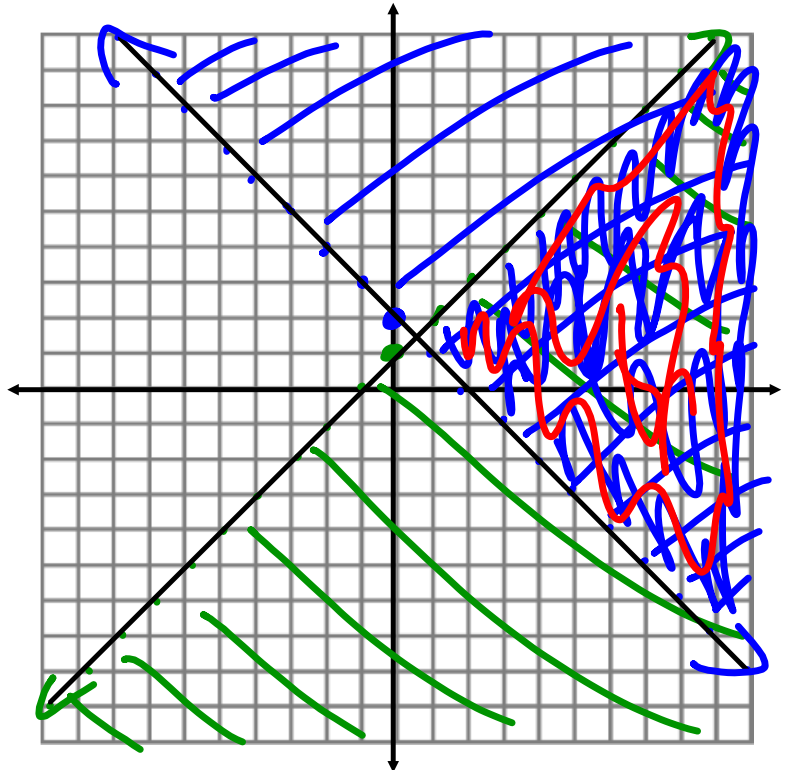
Graph.

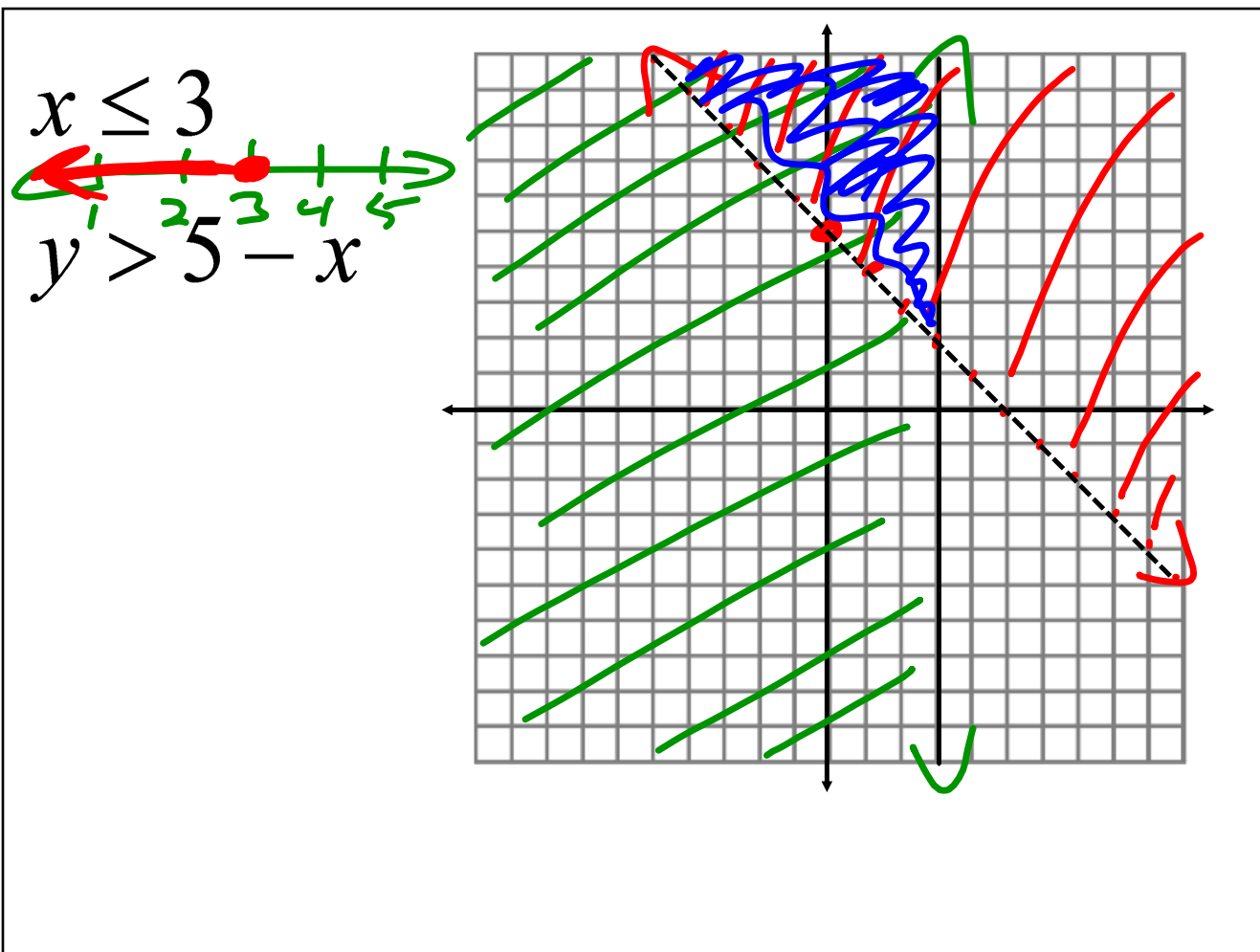
$$y < -2x - 5$$



$$y \leq x + 1$$

$$y \geq 2 - x$$





$$3x - y > -1$$

$$x - y > -4$$

$$\begin{array}{r} 3x - y > -1 \\ -3x \quad -3x \\ \hline \end{array}$$

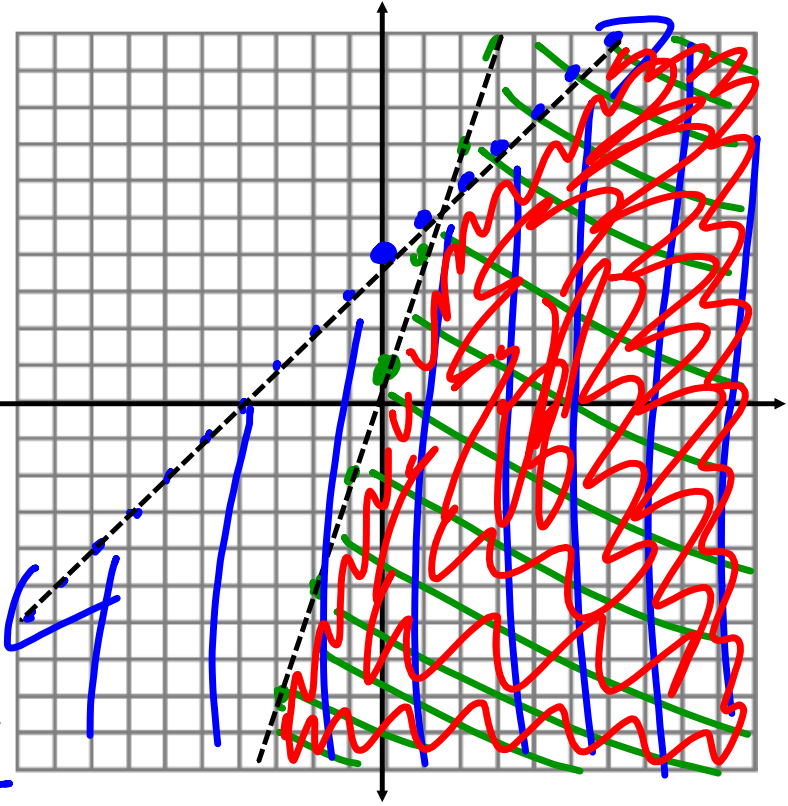
$$\begin{array}{r} -y > -3x - 1 \\ \times(-1) \quad \times(-1) \\ \hline \end{array}$$

$$y < 3x + 1$$

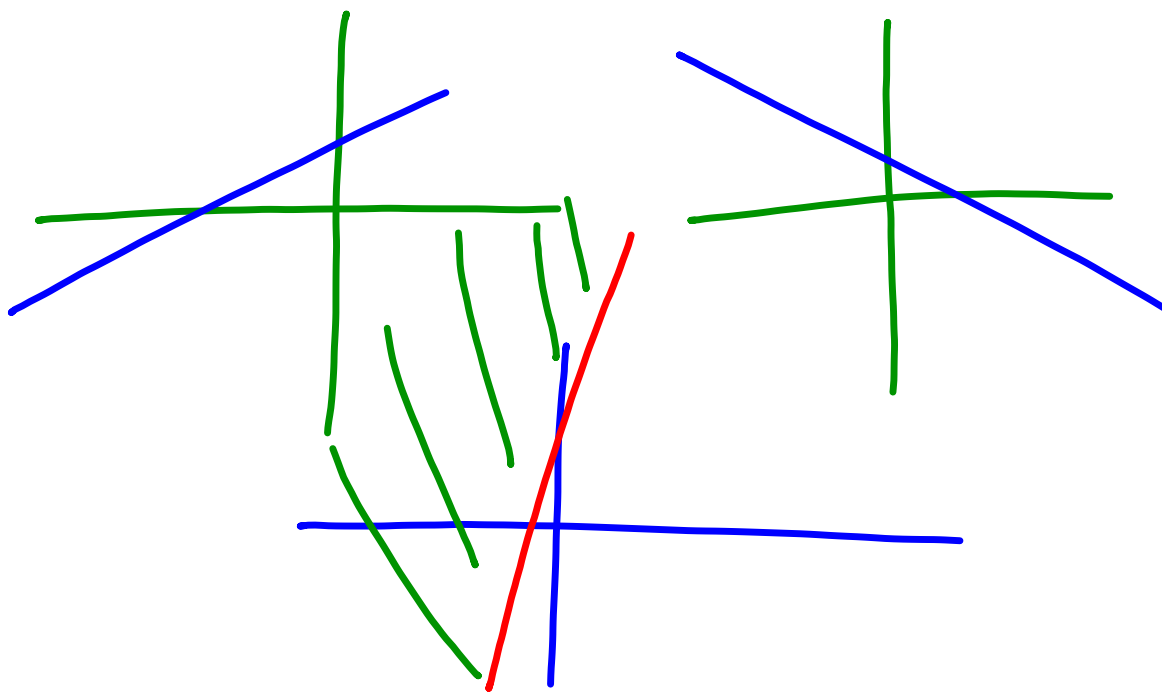
$$\begin{array}{r} x - y > -4 \\ -x \quad -x \\ \hline \end{array}$$

$$\begin{array}{r} -y > -x - 4 \\ \frac{-y}{-1} > \frac{-x - 4}{-1} \\ \hline \end{array}$$

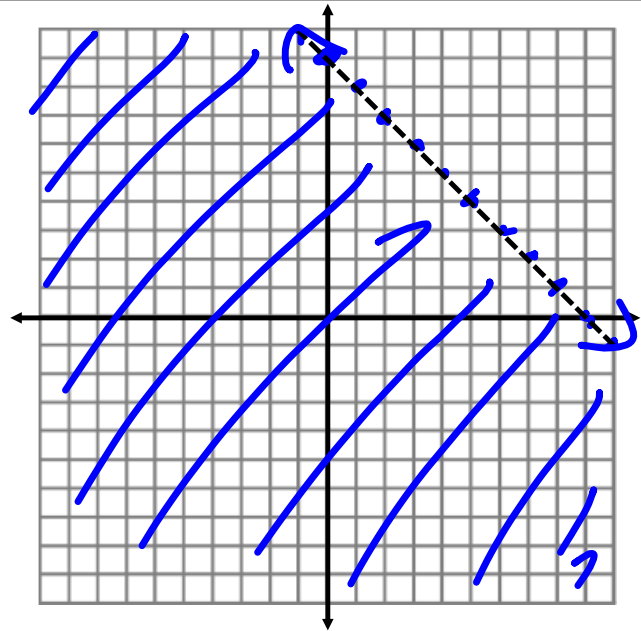
$$y < x + 4$$



HW Solutions



$$\begin{array}{r}
 (7) \\
 2x + 2y < 18 \\
 -2x \qquad -2x \\
 \hline
 2y < -2x + 18 \\
 \frac{2y}{2} < \frac{-2x + 18}{2} \\
 \hline
 y < -x + 9
 \end{array}$$



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