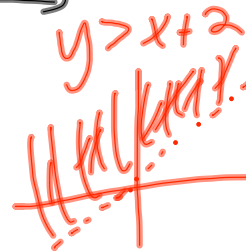
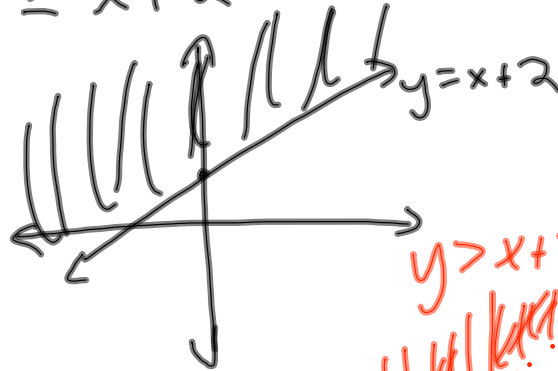


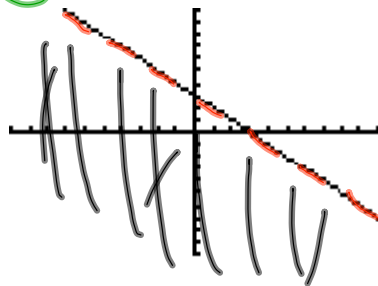
Math 20

Graphing Linear Inequalities

$$y \geq x + 2$$



$$y < 3 - x$$



$$3x - 2y \leq 5$$

$$-2y \leq 5 - 3x$$

$$y \geq -\frac{5}{2} + \frac{3}{2}x$$

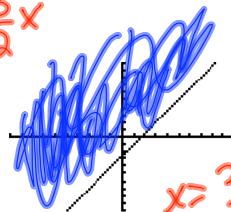
Are the points $(-2, -4)$ and $(3, 1)$ in the solution space?

$$\checkmark x = -2 \quad y = -4$$

$$3(-2) - 2(-4) \leq 5$$

$$-6 + 8 \leq 5$$

$$2 \leq 5$$



~~$$x = 3 \quad y = 1$$

$$3(3) - 2(1) \leq 5$$

$$9 - 2 \leq 5$$

$$7 \leq 5$$~~

p. 75

2, 4, 12, 14, 16

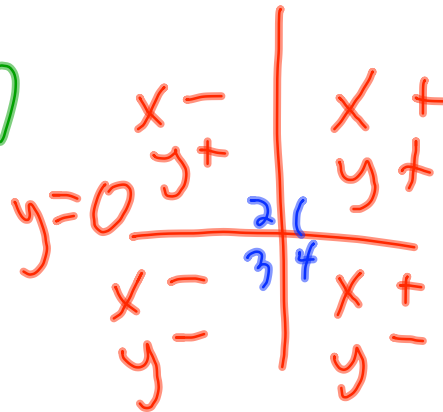
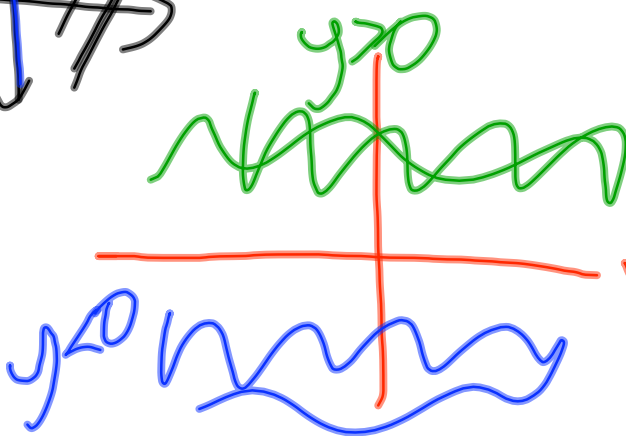
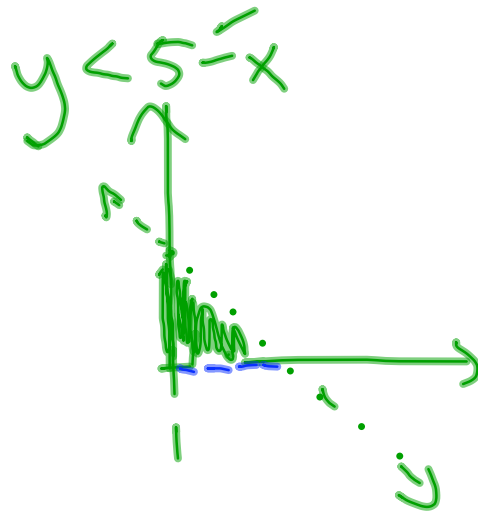
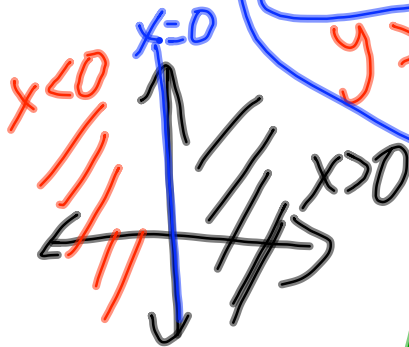
Ex:

Graph

$$x + y < 5 \checkmark$$

$$x \geq 0$$

$$y > 0$$



Systems of linear inequalities

Solve graphically

$$y > 3x + 4$$

$$y \leq -x - 3$$

