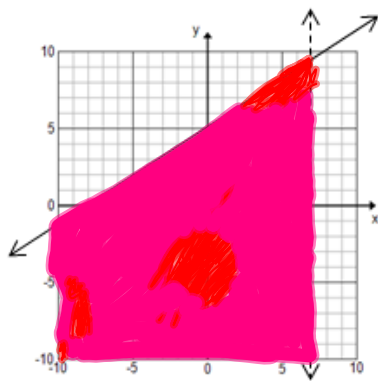
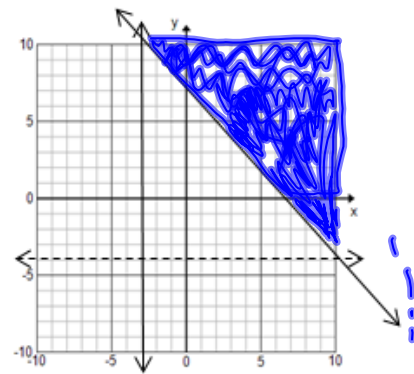


1. $\frac{3}{5}x + 5 \geq y$
 $x < 7$



2. $7 \leq x + y$
 $y > -4$
 $x \geq -3$



- 4) Graph the system of inequalities. Find the vertices of the feasible region and label them on the graph.

special case

$$\begin{cases} 2x + y \leq 8 \\ x \geq 1 \\ y \leq 2 \\ y \geq \frac{1}{2}x - 7 \end{cases}$$

x	y
0	8
4	0

$$0 \geq \frac{1}{2}(6) - 7$$

$$0 \geq -7$$



VERTICES:

$(1, 2)$ $(3, 2)$ $(1, -6)$
 $(6, -4)$

check: $2(6) + (-4) = 8$
 $12 - 4$

