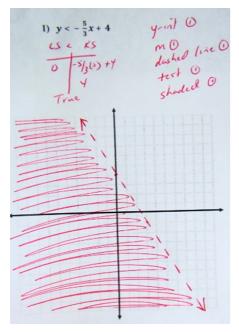
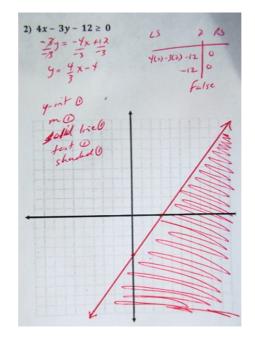
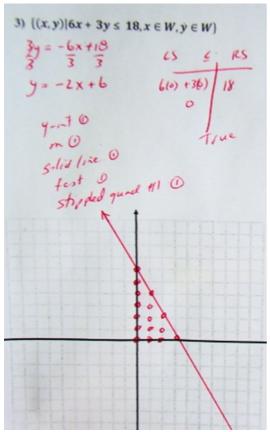
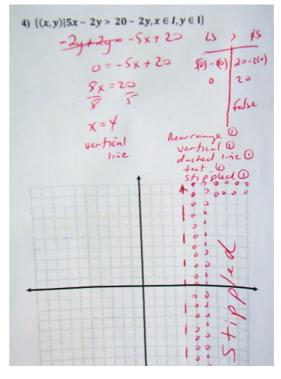
Quiz Solutions...









HOMEWORK???

Page 248: #1,(#2), #3, #5

NOTE:

Create a model means graph the solution region

- 2. A fast-food concession stand sells hotdogs and hamburgers.
- → Daily sales can be as high as 300 hamburgers and hot dogs combined.

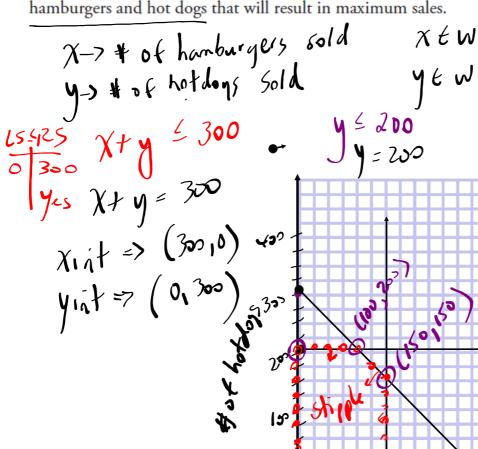
• The stand has room to stock no more than 200 hot dogs and no more than 150 hamburgers.

Hot dogs are sold for \$3.25, and hamburgers are sold for \$4.7

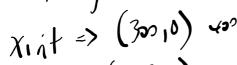
Create a model that could be used to \$4.7

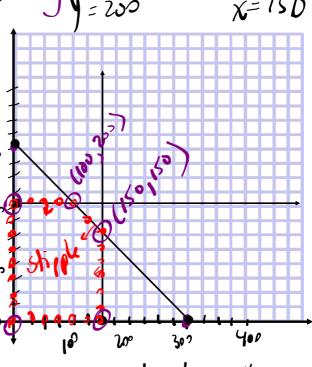
hamburgers and hot 1

hamburgers and hot dogs that will result in maximum sales.







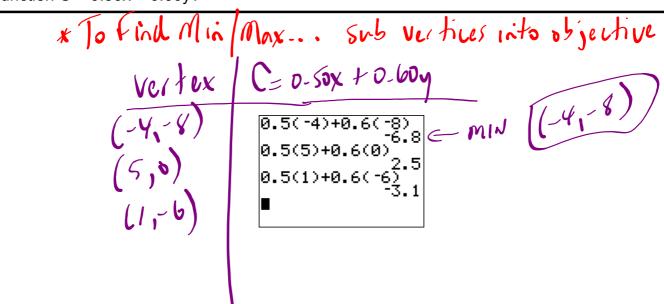


X & 150



EXAMPLE #1...

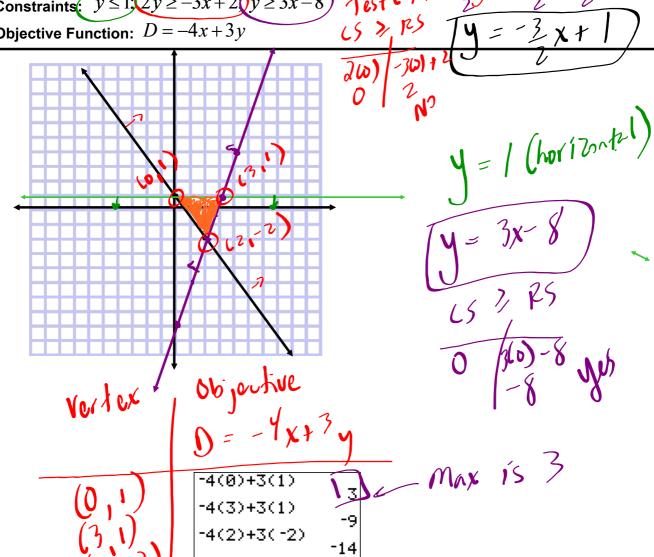
The vertices of the feasible region of a graph of a system of linear inequalities are (-4, -8); (5, 0) and (1, -6). Which point would result in the minimum value of the objective function C = 0.50x + 0.60y?



EXAMPLE #2...

The following model represents an optimization problem. Determine the maximum solution.

Restrictions: $x \in R$ and $v \in R$ Test (210) Constraints: $y \le 1$, $2y \ge -3x + 20y \ge 3x - 8$ Objective Function: D = -4x + 3y

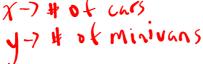


EXAMPLE #3... 4x/2 = 48 four MVHS teams are travelling to a basketball tournament in cars and minivans.

- /Each team has no more than 2 coaches and 10 athletes
- Each car can take 4 team members. Each minivan can take 6 team members.
- No more than 6 cars are available, but more than 3 minivans are available.

Mr. Watters wants to know the combination of cars and minivans that will require the maximum number of vehicles...

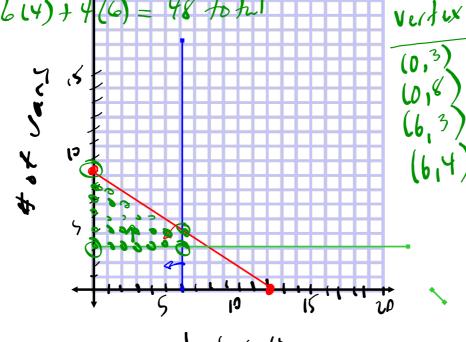
a) Create an algebraic model to represent this situation.



b) Graph the model.

c) What combination of cars/minivans will result in the maximum number of vehicles?

d) How many team members can travel in the maximum number of vehicles?



Practice Questions...

p. 252: #1 - 3

p. 259: #1 - 4