Page 248: #2 (from notes)

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 $4.75.

   Create a model that could be used to determine the combination of hamburgers and hot dogs that will result in maximum sales.

x y

objective function

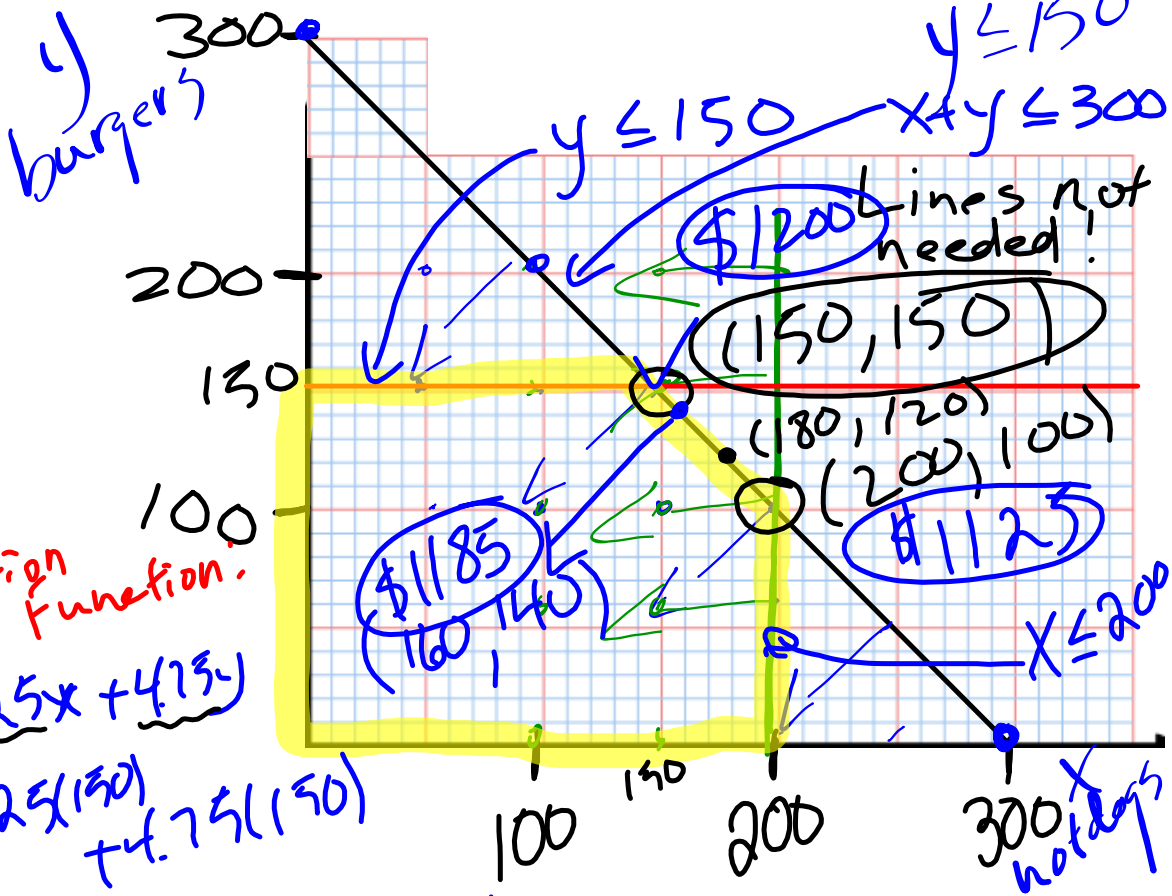
$x + y \leq 300$

constraints:

$x \leq 200$

$y \leq 150$

$y \leq 150$ $x + y \leq 300$



objection function:

$C = 3.25x + 4.75y$

$C = 3.25(150) + 4.75(150)$

$C = \$1200$ (max profit)

Practice Questions:
-You Try (from notes)
-Page 248: #3

Attachments

6Ws4e1.mp4

6Ws4e2.mp4