

#35 #16

Corrected Problems 3.3, 3.4, 3.5, MID chapter test

3.3 #8

$$b + f = 360$$

$$b = 2f + 30$$

$$(2f + 30) + f = 360$$

$$3f + 30 = 360$$

$$3f = 330$$

$$f = 110 \text{ cards}$$

$$b = 250 \text{ cards}$$

not assigned
not graded

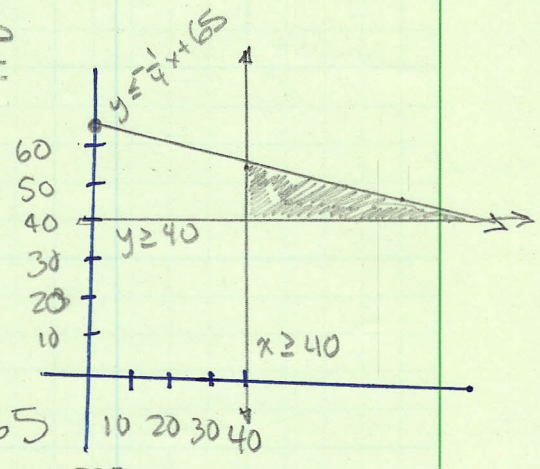
3.4, #35 page 149

x = raisins
y = juice boxes

$$x \geq 40$$

$$y \geq 40$$

$$.1x + .4y \leq 26$$



$$.4y \leq 26 - .1x$$

$$\frac{.4y}{.4} \leq \frac{26}{.4} - \frac{.1x}{.4}$$

Note: if anyone actually gets this problem +5 extra credit

3.5 #21 page 155

$$C = 50A + 55B$$

$$b \leq -\frac{1}{6}a + 450$$

$$a + 6b \leq 2700$$

$$b \leq -3a + 1500$$

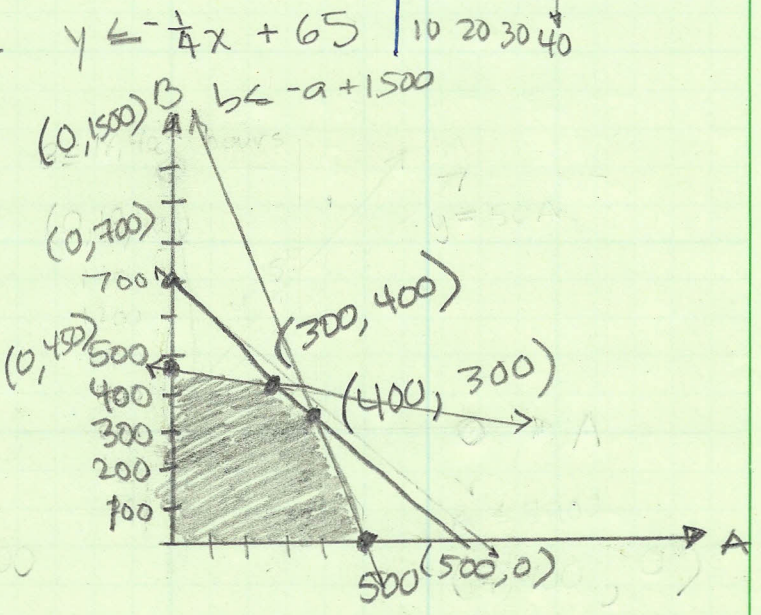
$$3a + b \leq 1500$$

$$b \leq -a + 700$$

$$a + b \leq 700$$

$$a \geq 0$$

$$b \geq 0$$



solve

$$b \leq -3a + 1500$$

$$-b \leq -a + 700$$

$$0 \leq -2a + 800$$

$$a = 400$$

$$b = 300$$

solve

$$b \leq -a + 700$$

$$-b \leq +\frac{1}{6}a + 450$$

$$0 \leq -\frac{5}{6}a + 250$$

$$\frac{5}{6}a = 250$$

$$a = 300$$

$$b = 400$$

continue to (page 2)

Corrected Problems 3.5, MID Chapter Review

List vertices

$$(0, 450), (300, 400), (400, 300), (500, 0)$$

Plug into constraining problem

$$C = 50A + 55B$$

$$(1) C = 55(450) = 24,750$$

$$(2) C = 50(300) + 55(400) = 37,000 \text{ MAXIMUM}$$

$$(3) C = 50(400) + 55(300) = 18,500$$

$$(4) C = 50(500) = 25,000$$

$$\therefore A = 300 \text{ units } \hat{=} B = 400 \text{ units}$$

MCR

$$\# 16. (1.08 - .36)x = 82,800$$

$$\underline{\underline{x = 115,000}}$$