Ex. 2.1.7 - Pag 25.

x_p - QTDADE PIZZA / 8 H

x_c - QTDADE CALZONE / 8H

F.O. MAX RECEITA = $18x_p + 22x_c$ (5)

SUJEITO A $40x_p + 60x_c \leq 5000$ g. (4)

$\frac{1}{16}x_p + \frac{1}{9}x_c \leq 8,3$ PIZZAIOLOS $\Rightarrow$ 24 (3)

$x_p \geq 0$ (2)

$x_c \geq 0$ (1)

(3) $\frac{1}{16}x_p + \frac{1}{9}x_c \leq 24$

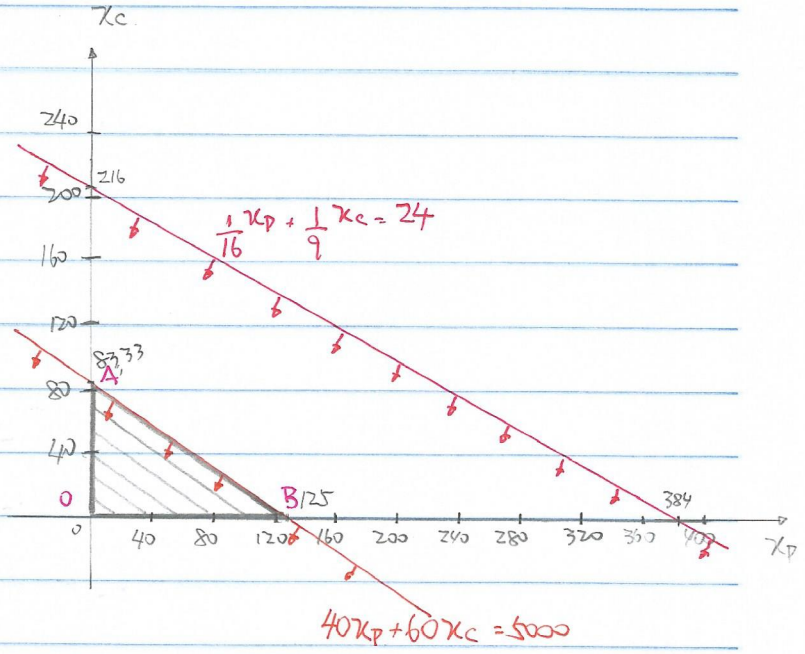
$\frac{1}{16}x_p + \frac{1}{9}x_c = 24$ RETA

x_p	x_c
0	216
384	0

(4) $40x_p + 60x_c \leq 5000$

$40x_p + 60x_c = 5000$ RETA

x_p	x_c
0	83,33
125	0



(5) MAX RECEITA = $18x_p + 22x_c$

(0,0) - RECEITA = $0 + 0 = 0$

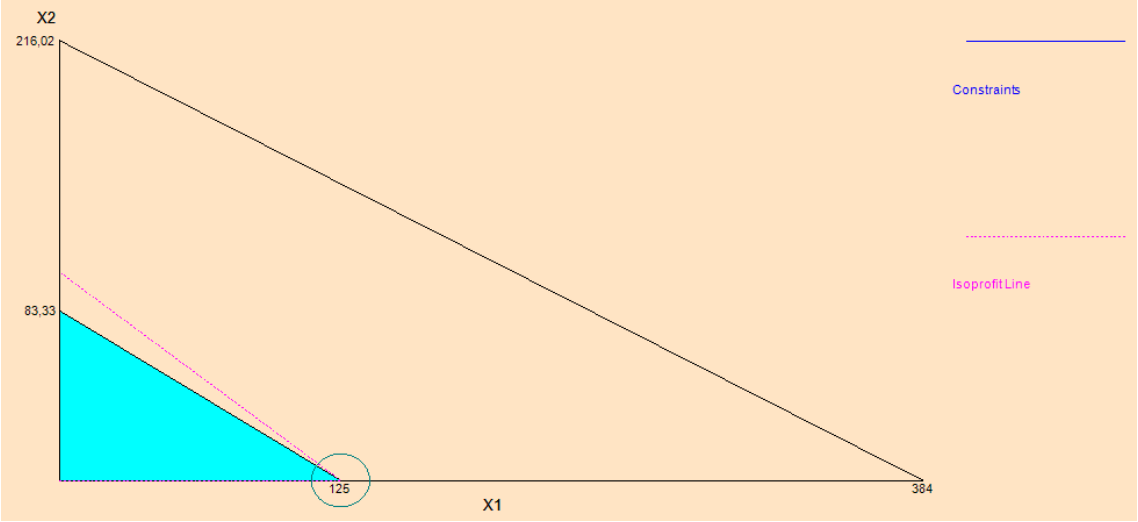
A(0; 83,3) RECEITA = $18 \cdot 0 + 22 \cdot 83,33 = 1833$

B(125; 0) RECEITA = $18 \cdot 125 + 22 \cdot 0 = 2250$

RESPOSTA: PIZZA = 125

CALZONE = 0

RECEITA = 2250



Constraint Display

- ○ Max 18X1+22X2
- ○ 40X1+60X2<=5000
- ○ 625X1+1111X2<=240000
- ◉ none

X1	X2	Z
0	0	0
0	83,3...	1833...
125	0	2250