Aluno: Sandro Matheus Ramos

Trabalho de Programação Linear à disciplina de Pesquisa Operacional

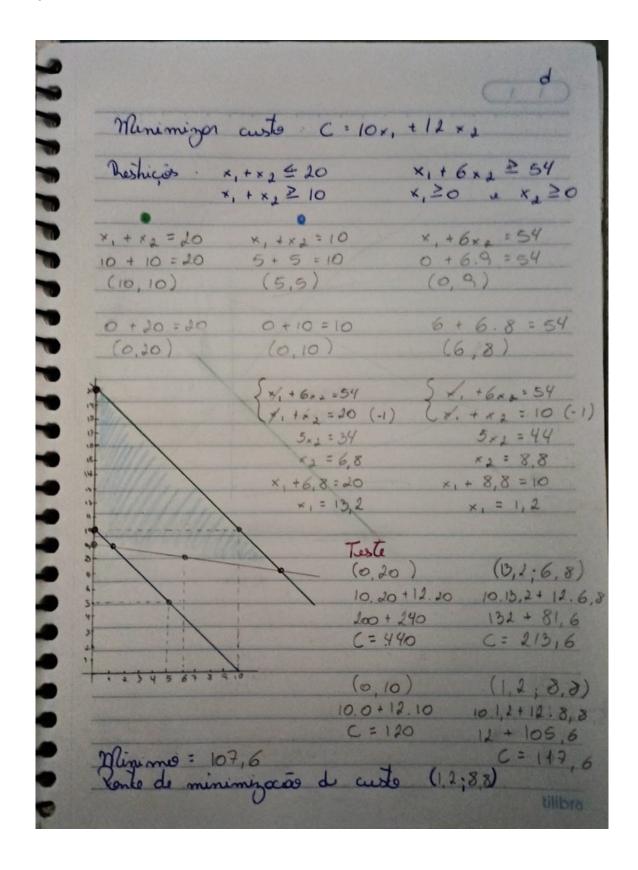
Maximizar: Z=2x1+3x2, sujeito a -x1+2 $x2 \le 4$, x1+2 $x2 \le 6$, x1+3 $x2 \le 9$, $x1 \ge 0$, $x2 \ge 0$

$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	x, + 2, 2 = 4	×++3×2=9
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} x_1 + \lambda_{x_2} = 6 & x_1 + 3x_2 = 9 \\ 0 + \lambda_{x_2} = 6 & 0 + 3 \cdot 3 = 9 \\ (0,3) & (0,3) & \\ 6 + \lambda_{x_2} = 6 & 3 + 3 \cdot \lambda_{x_2} = 9 \\ (6,0) & (3,\lambda) & \\ \hline \\ \begin{cases} x_1 + \lambda_{x_2} = 6 \\ y_2 = \lambda_{x_2} = 6 \\ y_3 = \lambda_{x_3} = 1 \end{cases} \\ \hline \\ x_1 = 6 \cdot 5 \Rightarrow x_1 = 1 \end{cases}$ $\begin{array}{c} x_1 + \lambda_{x_2} = 9 \\ (0,\lambda) & (1,\lambda) = 9 \\ \hline \\ x_2 = \lambda_{x_3} = 6 \\ \hline \\ x_1 = 6 \cdot 5 \Rightarrow x_1 = 1 \end{cases}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2+2.3=4 $0+2.3=6$	×4+3×0=9
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2+23=4 0+23=6	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	(1,3) (0,3)	
$(0,2) \qquad (6,0) \qquad (3,2)$ $\begin{cases} -\frac{1}{2} + 2\frac{1}{2} = 4 \\ \frac{1}{2} + 2\frac{1}{2} = 6 \\ \frac{1}{2} = \frac{10}{2} =$	$(6,0)$ $\begin{cases} -\frac{1}{2},\frac{1}{2} \\ -$	(6,0) (6,0) (3,2) $ \begin{cases} -\frac{1}{2} \cdot \frac{1}{2} \cdot $		(0,3)
$(0,2) \qquad (6,0) \qquad (3,2)$ $\begin{cases} -\frac{1}{2} + 2\frac{1}{2} = 4 \\ \frac{1}{2} + 2\frac{1}{2} = 6 \\ \frac{1}{2} = \frac{10}{2} =$	$(6,0)$ $\begin{cases} -\frac{1}{2},\frac{1}{2} \\ -$	(6,0) (6,0) (3,2) $ \begin{cases} -\frac{1}{2} \cdot \frac{1}{2} \cdot $	0.114 6.10-6	2 + 2 2 = 9
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	$\begin{cases} -\frac{1}{2} + \frac{1}{2} = \frac{10}{2} \\ + \frac{1}{2}$	$\begin{cases} -\frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} \\ + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} \\ + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} \\ + \frac{1}{2} +$	(01) (60)	
*/. + 2 × 2 = 6 4 × 2 = 10 × 2 = 2.5 //		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0,27	
4×2 = 10 ×2 = 2.5//	$4 \times 2 = 10$ $2 \times 2 = 2.5 \text{ (a)}$ $2 \times 4 \times 2.2.5 = 6$ $2 \times 4 \times 2$	testes (6,0) (6,0) (6,0) (1, 2,5) 2.6+3.0 $4 \times 2 = 10$ $2.6+3.2$ $2.1+3.2,5=6$ $2.1+3.2,5=6$	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2+2=4
Y2 = 2.511	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	testes (6,0) (6,0) (6,2) (1, 2,5) 2.6+3.0 (1, 2,5) 2.1+3.2,5		
× + 2.2,5 = 6	(0,2) $(1,2,5)$	tester (6,0) (0,2) (1,2,5) (1,6,5) (2,6+3.0 2.0+3.2 2.1+3.2,5	4	
x + 2.2,5 = 6	(0,2) $(1,2,5)$	tester (6,0) (0,2) (1,2,5) (1,6,5) (2,6+3.0 2.0+3.2 2.1+3.2,5		×2:2,5//
1, 1, 2, 2, 3, 2, 6	(0,2) $(1,2,5)$	tester (6,0) (0,2) (1,2,5) (1,6,5) (2,6+3.0 2.0+3.2 2.1+3.2,5	1 1 3 4 5 5 7	+20==6
x = 6.5 -) x = 1.	(0,2) (1, 2,5)	testes (6,0) (0,2) (1,2,5) 2.6+3.0 2.0+3.2 2.1+3.2,5		
		(6,0) $(0,2)$ $(1,2,5)$ $(2,6+3.0)$ $(0,2)$ $(1,2,5)$ $(1,2,5)$		
testes		2.6+3.0 2.0+3.2 2.1+3.2,5	testes	
(6.0) (0,2) (1, 2.5)			(6,0) (0,2)	(1, 2,5)
		7-11		
	7-/			2+7,5
7 . 0 6		7 : 9 5	THE REAL PROPERTY.	2 = 9,5
				2 - 1, 5

	ento M = 0,8x, +0,5x2
hestigos .	1x1+ x2 4 2
-	(1+0×2 ± 3
*	(1)0 e x2 ≥0
1	
2x1+x2=2	x,+3x2=3
21+0=2	0+3.1=3
(1,0)	(0,1)
10+2=2	3+3.0=3
(0,2)	(5,0)
0,21	(5,0)
43	S1x, +x2 = 2
24	(x, +3x2=3 (-2)
	26, + x2 = 2 = x2 = -4
1 1 1 1	4, - 6, = -6
	·· -24, -6, = -6 -5
teste	x1 = 3.0.8 = 3
(0,1)	x,=3-2,4 =x,=0
0,3.0+0,5.1	STATE OF THE PARTY
M: 0,5	(1,0) (0,6;0,3)
	0,3.1+0,5.0 0,3.0,6+0,5.00
	M=0.3 0,18+0,4
	M=0,48
20 - 0	otimo poro mocimizor i (0,1)

Maximizar lucro: L=2 x1+3 x2, sujeito a x1+3 x2 \leq 9, - x1+2 x2 \leq 4, x1+ x2 \leq 6, x1 \geq 0, x2 \geq 0

-	*,+3x, 49 x,+2x,4	1 x, ≥	x, 46	0
x, +3x2 = 9	-+,+2×2	=4 ×	1+x2 = 6	-
0 + 3. 3 = 9	0+2.2		+ 3 = 6	- T
(0,3)	(0,2)	(3,3)	
3+3.2=9	-2+2.3	-4	4 + 2 = 6	
(3,2)	(2,3)		(4,2)	
		Dall		
		2 x = 4	7×,+3x2	= 9
100		5x2=13	(x/1 + x 2 2 x 2	
HA CONTRACTOR OF THE PARTY OF T		×2=26		1,5
The state of the s	1			
1 3 4		1+3.2.6=9	×, +1,5=	
		= 1,2	1 110	
Texte	SETONO.	1		TAT
12,2,6)	(4,5;1,5)		2.6+	
1,2+3.2,6 2	9+45	1=6	L=12	5.0
1 1,0				WHITE SERVE



Minimizar: Z= 7 x1+ $9x_2$ sujeito $a - x1+x_2 \le 2$, $x1 \le 5$, $x_2 \le 6$, $3x1+5x_2 \ge 15$, $x1+4x_2 \ge 20$, $x1 \ge 0$, $x_2 \ge 0$

