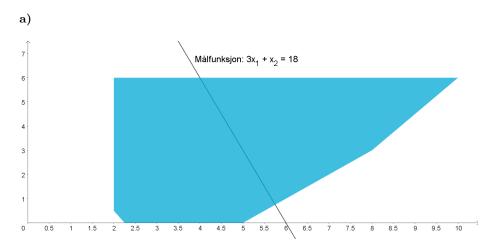


$TI\emptyset4120$ - Operasjonsanalyse, grunnkurs

Exercise #3

Author: Sondre Pedersen

Oppgave 1



Mulighetsområdet med en vilkårlig valgt målfunksjon

 \mathbf{b}

Oppgave 1

max
$$3x_1 + x_2$$
 (0)
5.t. $k_1 - x_2$ 5 5 (1)
 $3x_1 - 2x_2$ 5 (8 (2)
 $4x_1$ $+ 2x_2$ 3 9 (3)
 $+x_2$ 5 6 (4)
 $+x_1$ 3 2 (5)
 $+x_2$ 3 0 (6)

Ma legge til kunstrærighter for (3) og (5). Så i får:

Basis variable Eq 2 x x 2 5 1 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5
6,
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
A1
54 (4) 0 0 , 6 0 0 1 0 0 0 6 x1 (5) 0 1 0 0 0 0 0 0 0 0 0 0 2 Z 6) 10 1/2 0 0 1/2 0 1/4 0 2.27 51 (2) 0 0 7/2 1 0 1/4 0 0 1/4 0 2.27 52 (3) 0 0 1/2 0 0 1/4 1 0 1/4 -1 0.26 54 (4) 0 1 1 0 0 0 0 0 0 0 0 0 0 X, (5) 0 0 1/2 0 0 1/4 0 0 1/4 0 2.76 Z 6) 10 -4 3 0 0 0 0 0 0 0 0 X, (5) 0 0 1 -3 1 0 0 0 0 0 0 52 (2) 0 0 1 -3 1 0 0 0 0 0 0 53 (2) 0 0 1 -3 1 0 0 0 0 0 0 54 (4) 0 0 1 0 0 0 1 0 0 0 55 (5) 0 1 -1 0 0 0 0 0 0 0 56 (5) 0 1 -1 0 0 0 0 0 0 0 57 (5) 0 1 -1 0 0 0 0 0 0 0 58 (7) 0 0 1 -3 1 0 0 0 0 0 0 59 (5) 0 1 -1 0 0 0 0 0 0 0 60 (-6)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
51
52 (2) 00 320 1 34 0 1340 11.20 16 54 (3) 00 12 00 14 1 0 14 -1 0.26 -1 54 (4) 01 1 0 6 0 0 0 0 0 0 0 0 X, (5) 00 1/200 34 0 0 140 2.76 -9 2 (6) 10 -4300000000000000000000000000000000000
56
54 (4) 0 1 1 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2 6) 10 -43 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
53 (2) 0 0 -6 4 0 (0 0 -10) (1 -1,93 52 (2) 0 0 1 -3 1 0 0 0 0 0 0 3 56 (3) 0 0 -1 1 0 0 0 0 (-1-3) -3 54 (4) 0 0 (0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
52 (4) 0 0 1 -> 1 0 0 0 0 0 0 3 56 (3) 0 0 -1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
52 56 (31 0 0 7 1 1 0 0 0 0 1 -1-3 5-4 (4) 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0
56 BI 00 1 1 000 1 -1-3 5-4 (4) 00 1 00 0 1 00 0 0 0 0 0 0 0 0 0 0 0 0
× (5) 0 1 -1 , 0 0 0 0 0 0 - 6
27 (9) 5 . 117 0 0 0 0
Z 6) (00 -940 OUM M 27
53 (2) 000-146 100-10 29 - 2.07
×z (2) 0 01 -3 1 0 00 0 0 3
ξ ₁ (9) 8 · θ 1 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
C
56 BI 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
s, (4) 0 0 0 1 -0.330 0.73 0 0 0 1
V, (5) 0 1 0 0 0000 0 00 10

Oppgave 2

$$Z = 4x, +8x_1 + 3x_3 + May + Maz$$
 (2)
 $x_1 + y_2 + 51 + a_2 = \frac{2}{7}$ (2)
 $2x_2 + x_3 + 5z + 6z = 7$ (2)

6)

Basis-carisble	Egy	2 x, x2 k3 5, 52 a, az	iz H S	Fo-hold stest
7	(6)	1 14 74 14 - N-MOO	711	Ť
a,	(1)	0110-1010	7	2
ar	(2)	00210401	5	2,5
7	(0)	1 -240 -3 -8 -M -34 O	M +16	
× 2	(1)	0 11 0 7 6 1 0	Z	- Z
a z	(2)	0-2012-1-21	1	0.5
2	(6)	1-4010-4-44	20	
× 2	(1)	001/201/2	2.5	6
8,	(2)	0-10 1/2 1 1/2-1 1/2	0.5	1
S	(0)	1-200-2-3-12-13	19	
×2	(1)	0110-1010	2	
×7	(2)	0-2612-1-21	1	