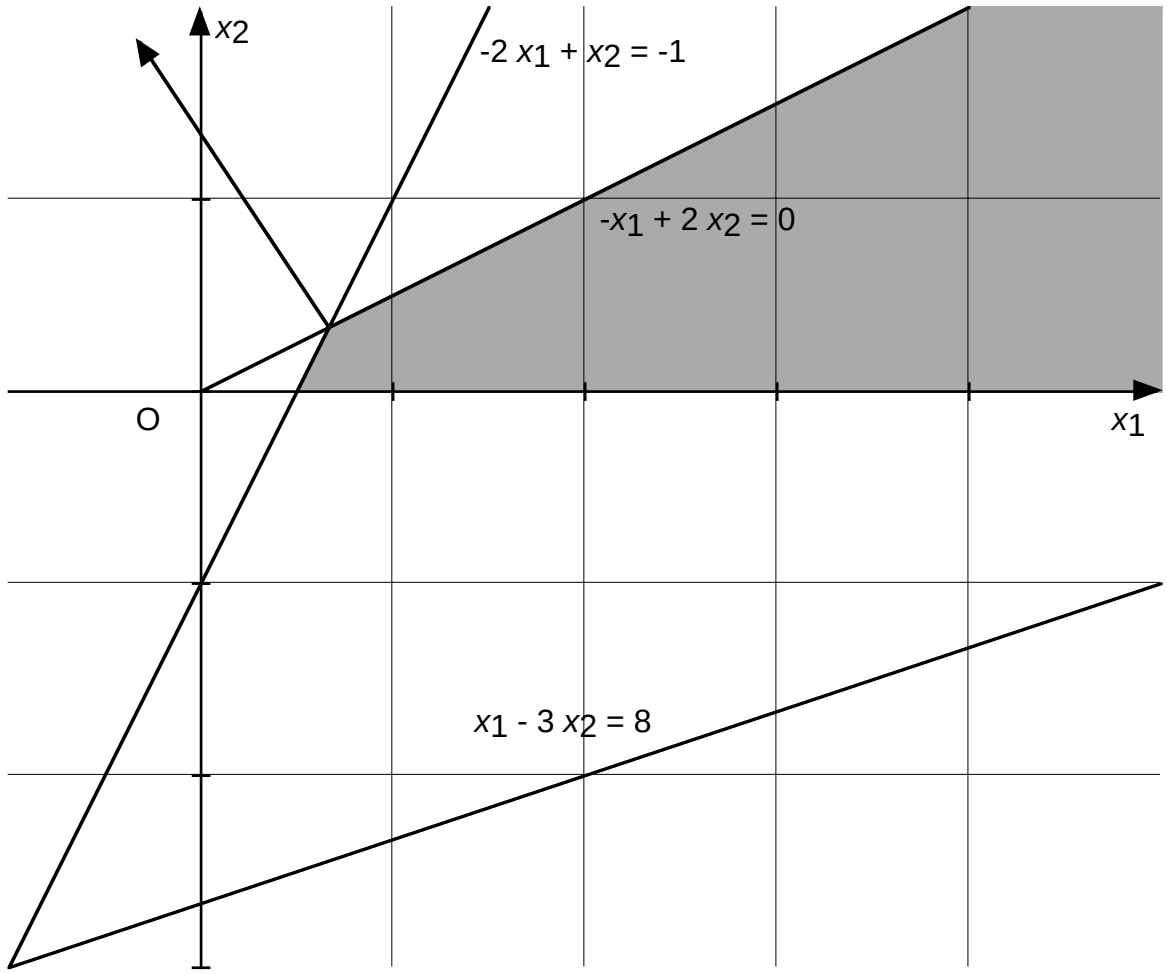
MO21 Corrigé du CCE1 du 25 février 2005

1.1



1.2.1

	X1	X2	X3	X4	X5	X6	
6	2	-1	-1	0	0	1	1
4	-1	2	0	1	0	0	0
5	1	-3	0	0	1	0	8
	-2+2M	3-M	-M	0	0	0	M

1.2.2

Pivot : A(1,1) = 2

	X1	X2	X3	X4	X5	X6	
1	1	-1/2	-1/2	0	0	1/2	1/2
4	0	3/2	-1/2	1	0	1/2	1/2
5	0	-5/2	1/2	0	1	-1/2	15/2
	0	2	-1	0	0	1-M	1

Pivot : A(2,2) = 3/2

	X1	X2	X3	X4	X5	X6	
1	1	0	-2/3	1/3	0	2/3	2/3
2	0	1	-1/3	2/3	0	1/3	1/3
5	0	0	-1/3	5/3	1	1/3	25/3
	0	0	-1/3	-4/3	0	1/3-M	1/3

1.2.3

Z = -1/3
X1 = 2/3
X2 = 1/3
X3 = 0
X4 = 0
X5 = 25/3
X6 = 0

1.3

	X1	X2	X3	X4	X5	X6	
6	2	-1	-1	0	0	1	1
4	-1	2	0	1	0	0	0
5	1	-3	0	0	1	0	8
	1+2M	1-M	-M	0	0	0	M

Pivot : A(1,1) = 2

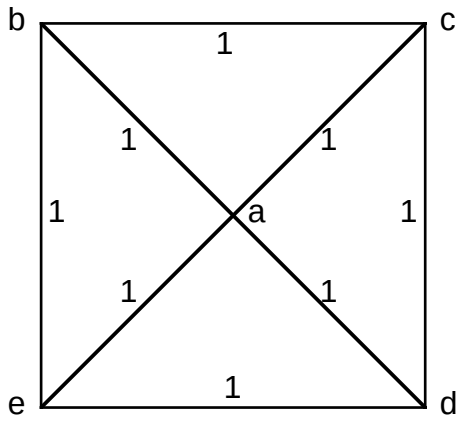
	X1	X2	X3	X4	X5	X6	
1	1	-1/2	-1/2	0	0	1/2	1/2
4	0	3/2	-1/2	1	0	1/2	1/2
5	0	-5/2	1/2	0	1	-1/2	15/2
	0	3/2	1/2	0	0	-1/2-M	-1/2

Pivot : A(2,2) = 3/2

	X1	X2	X3	X4	X5	X6	
1	1	0	-2/3	1/3	0	2/3	2/3
2	0	1	-1/3	2/3	0	1/3	1/3
5	0	0	-1/3	5/3	1	1/3	25/3
	0	0	1	-1	0	-1-M	-1

Pivot inexistant

2.1



2.2

```
[     A     B     C     D     E]
[     *     1     1     1     1] A
[     1     *     1     *     1] B
[     1     1     *     1     *] C
[     1     *     1     *     1] D
[     1     1     *     1     *] E

Tableau des degres d'espacement :
[     A     B     C     D     E ]
[     4     3     3     3     3 ]

Tableau des degres de saturation :
  [     A     B     C     D     E ] node color
1 [     0     0     0     0     0 ]   A :  1
2 [    -1     1     1     1     1 ]   B :  2
3 [    -1    -1     2     1     2 ]   C :  3
4 [    -1    -1    -1     2     2 ]   D :  2
5 [    -1    -1    -1    -1     2 ]   E :  3

Tableau final des couleurs interdites
[       1     2     3
A [     0     0     0]
B [     1     0     0]
C [     1     1     0]
D [     1     0     1]
E [     1     1     0]
]
```