

NASP - KNAPSACK DYNAMIČKO PROC.

CAPACITY = 12

ITEM	1	2	3	4
VALUE	8	6	12	5
CAPACITY	5	2	7	3

V	1	2	3	4	5	6	7	8	9	10	11	12
1	0	0	0	0	8	8	8	8	8	8	8	8
2	0	6	6	6	8	8	14	14	14	14	14	14
3	0	6	6	6	8	8	14	14	18	18	18	20
4	0	6	6	6	11	11	14	14	18	19	19	23

i = 4 3 2 1

c = 12 9 2 0

V	1	2	3	4	5	6	7	8	9	10	11	12
1	0	0	0	0	1	1	1	1	1	1	1	1
2	0	1	1	1	0	0	1	1	1	1	1	1
3	0	0	0	0	0	0	0	0	1	1	1	1
4	0	0	0	0	1	1	0	0	0	1	1	1

21 - 2012/13.

predmet	poluga	medalja	sat	narukvica	mač	laptop
masa	4	3	1	2	9	3
vrijednost	5	4	1	7	16	1

11 kg

	poluga	medalja	sat	narukvica	mač	laptop
1	0	0	1	1	1	1
2	0	0	1	7	7	7
3	0	4	4	8	8	8
4	5	5	5	8	8	8
5	5	5	6	12	12	12
6	5	5	6	13	13	13
7	5	9	9	14	14	14
8	5	9	10	14	14	15
9	5	9	10	17	17	17
10	5	9	10	18	18	18
11	5	9	10	18	23	23

i 6 5 4 3 2 1
masa 11 11 2 0 0 0

21 2010/11. (23)

$$20x_1 + 30x_2 \leq 19000$$

$$5x_1 + 7x_2 \leq 2000$$

$$10x_1 + 6x_2 \leq 25000$$

$$\min \quad -25x_1 - 30x_2$$

$$20x_1 + 30x_2 + x_3 = 19 \text{ CO}_2$$

$$5x_1 + 7x_2 + x_4 = 20000$$

$$10x_1 + 6x_2 + x_5 = 25000$$

21 2012.13. (2)

$$6x_1 + 15x_2 + 13x_3$$

$$X_1 + X_2 \geq 2.4$$

$$x_1, x_2 \in B$$

$$x_2 \leq 2$$

$$x_1 + x_2 + x_3 \leq 6$$

$$-6x_1 - 15x_2 - 13x_3$$

$$\lambda_1 + X_2 + X_3 + X_n = 0$$

$$x_1 + x_2 - x_5 = 2.4$$

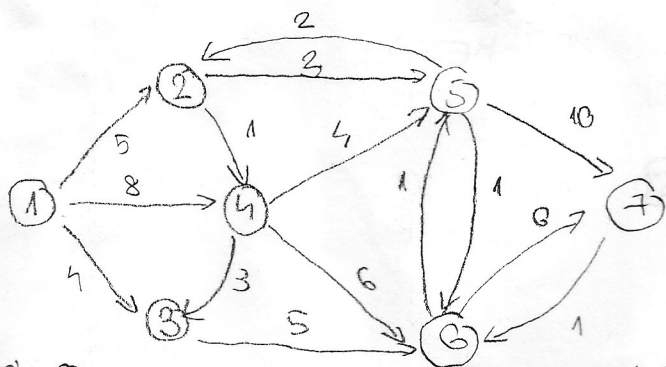
$$x_1 + x_2 = 3$$

$$X_0 + X_7 = 3$$

$$X_2 + X_8 = 2$$

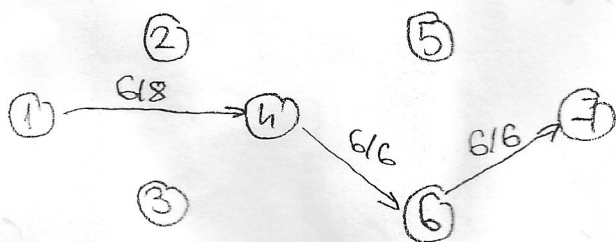
	x_1	x_2	x_3	x_4	x_5	x_6	x_7	x_8	
x_4	0	0	1	1	1	0	0	0	3.6
x_1	1	(1)	0	0	-1	0	0	0	2.4
x_6	0	-1	0	0	1	1	0	0	0.6
x_7	0	1	0	0	0	0	1	0	3
x_8	0	0	1	0	0	0	0	1	2
	-6	-15	-13						0
x_4	0	0	1	1	1	0	0	0	3.6
x_2	1	1	0	0	-1	0	0	0	2.4
x_6	1	0	0	0	0	1	0	0	3
x_7	-1	0	0	0	(1)	0	1	0	0.6
x_8	0	0	1	0	0	0	0	1	2
	9	0	-13	0	-15	0	0	0	36
x_4	1	0	1	1	0	0	-1	0	3
x_2	0	1	0	0	0	0	1	0	3
x_6	1	0	0	0	0	1	0	0	3
x_5	-1	0	0	0	1	0	1	0	0.6
x_8	0	0	(1)	0	0	0	0	1	2
	-6	0	-13	0	0	0	15	0	45
x_4	(1)	0	0	1	0	0	-1	-1	1
x_2	0	1	0	0	0	0	1	0	3
x_6	1	0	0	0	0	1	0	0	3
x_5	-1	0	0	0	1	0	1	0	0.6
x_8	0	0	1	0	0	0	0	1	2
	-6	0	0	0	0	0	15	13	71
x_1	1	0	0	1	0	0	-1	-1	1
x_2	0	1	0	0	0	0	1	0	3
x_6	0	0	0	-1	0	1	1	1	2
x_5	0	0	0	1	1	0	0	-1	1.6
x_8	0	0	1	0	0	0	0	1	2
	0	0	0	6	0	0	15	13	77

21 2012/13 (9)



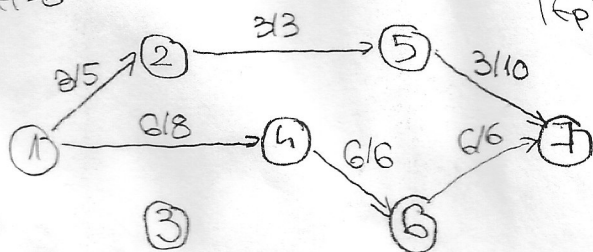
$|f| = 0$

$|f_p| = 6$



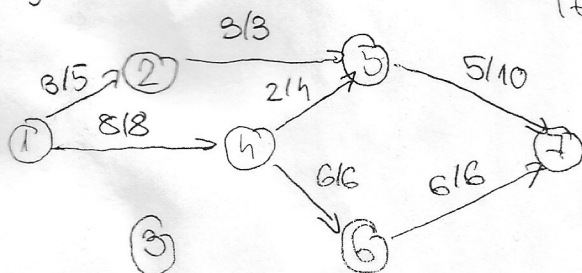
$|f| = 6$

$|f_p| = 3$



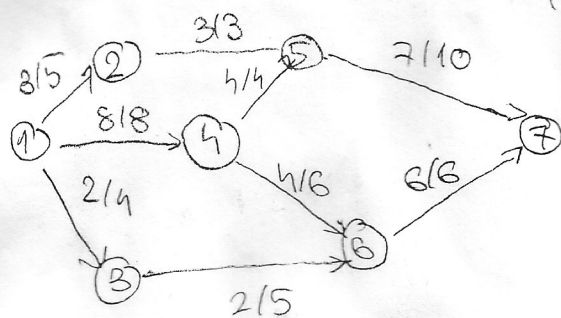
$|f| = 9$

$|f_p| = 2$



$|f| = 11$

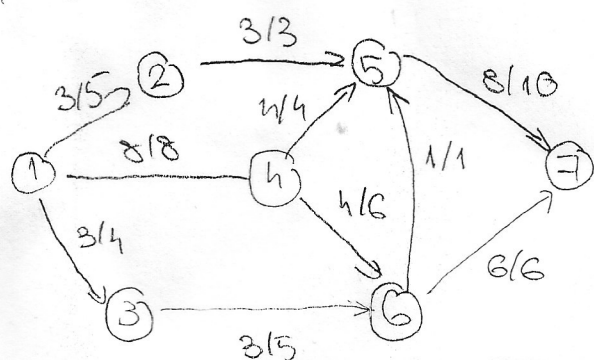
$|f_p| = 2$



$|f| = 13$

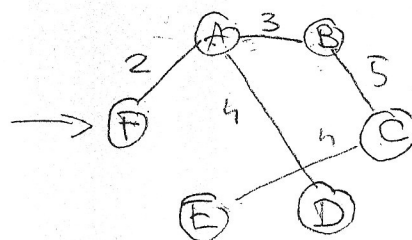
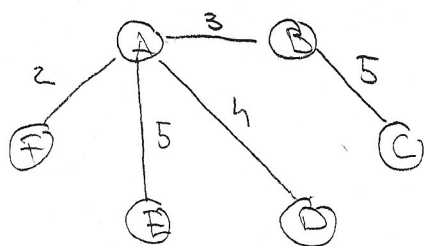
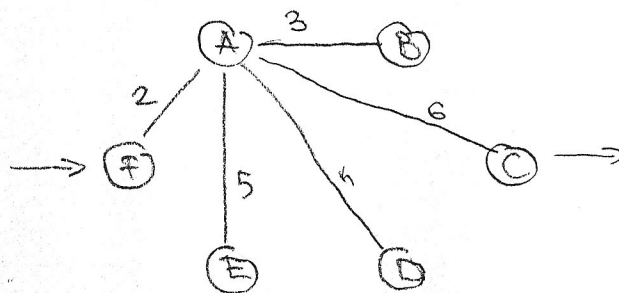
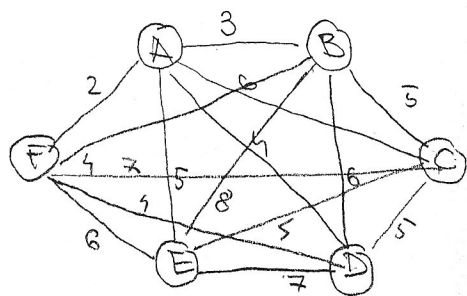
$|f_p| = 1$

$|f'| = 14$

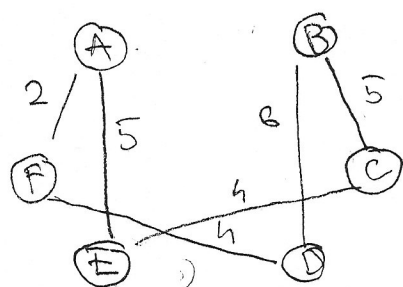


NASP-GRADOVI - HAMILTONOV CIKLUS

21. 2012/13. (5.)



$A \rightarrow F \rightarrow D \rightarrow B \rightarrow C \rightarrow E$



$$2|MST| = 2 \cdot 18$$

$\rightarrow 26$