

Први тест

1. Задатак број

Поставка задатка:

$$\text{min } z = -4x_1 + x_2$$

$$(1) \quad x_1 + x_2 \geq 2$$

$$(2) \quad 2x_1 + 3x_2 \leq 18$$

$$(3) \quad 3x_1 - 2x_2 = 1$$

$$\text{Max}(-z) = 4x_1 - x_2$$

$$-x_1 - x_2 \leq -2$$

$$2x_1 + 3x_2 \leq 18$$

$$3x_1 - 2x_2 = 1$$

$$x_1 \geq 0 \quad x_2 \geq 0$$

Решење:

$$\begin{array}{r} 2x_1 + 3x_2 = 18 \quad (-3) \\ 3x_1 - 2x_2 = 1 \quad (2) \end{array} \downarrow +$$

$$-13x_2 = -52$$

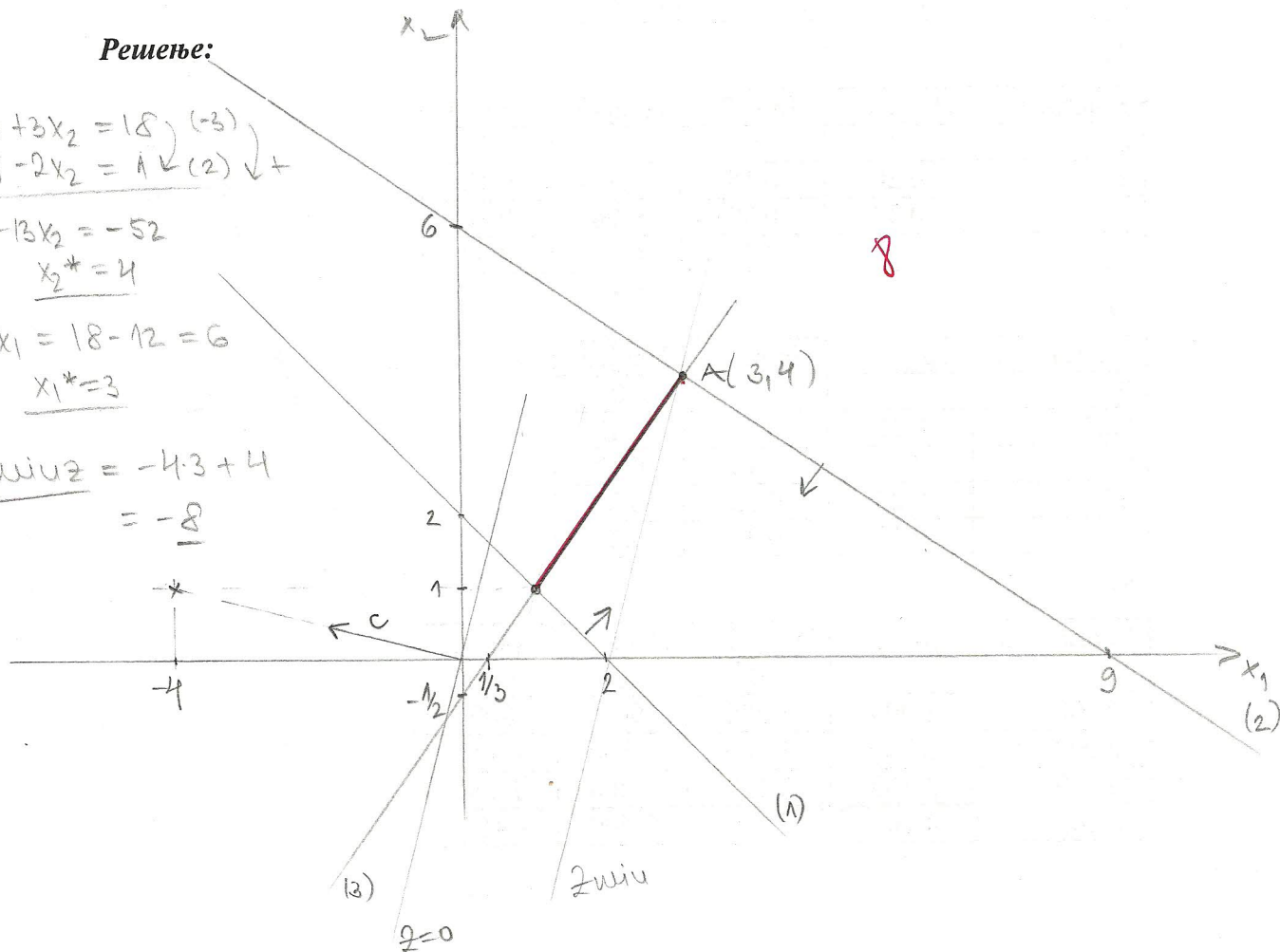
$$\underline{x_2^* = 4}$$

$$2x_1 = 18 - 12 = 6$$

$$\underline{x_1^* = 3}$$

$$\text{min } z = -4 \cdot 3 + 4$$

$$= \underline{-8}$$



$P=1$

	$-x_1$	$-x_2$	b_i
u_1	-1	-1	-2
u_2	2	3	18
u_3	3	-2	1
2	4	-1	0

$P=2$

	u_3	$-x_2$	b_i	θ_i
u_1		$-5/3$	$-5/3$	/
u_2		$13/3$	$52/3$	4
x_1		$-2/3$	$1/3$	/
2		$5/3$	$-4/3$	

u_3 МОРА
БУТИ
НУЛЛ!

$P=3$

	$-u_2$	b_i
u_1	$5/13$	5
x_2	$3/13$	4
x_1	$2/13$	3
2	$-5/13$	-8

$x_1^* = 3$

$x_2^* = 4$

$u_1 = 5 \quad u_2 = u_3 = 0$

$min u_2 = -8$

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