$$\max \quad z = 3x_1 + 5x_2 \qquad z$$

$$\text{uz} \qquad 2x_1 + 3x_2 \leq 5 \qquad y_1$$

$$1x_1 + 5x_2 \geq 3 \qquad y_2$$

$$2x_1 + 3x_2 = 3 \qquad y_3$$

$$\qquad\qquad\qquad\qquad y_5$$
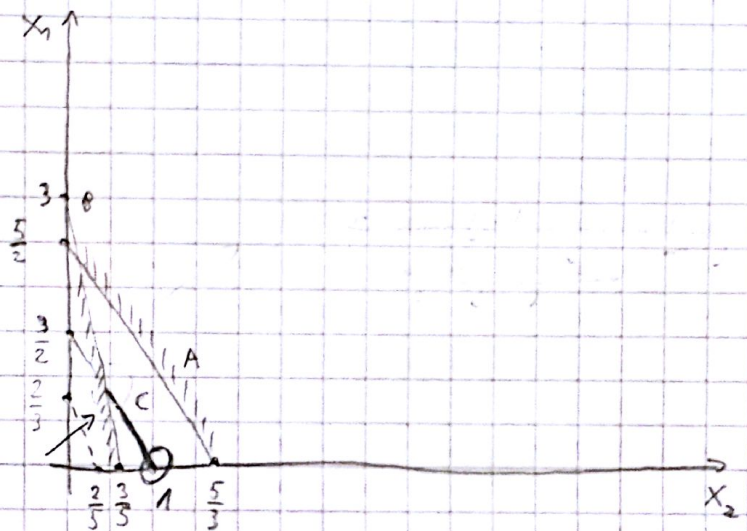
$$x_1 \geq 0$$

$$x_2 \geq 0$$

1.

$$\frac{x_1}{\frac{5}{2}} + \frac{x_2}{\frac{5}{3}} \leq 1 \qquad A$$

$$\frac{x_1}{3} + \frac{x_2}{\frac{3}{5}} \geq 1 \qquad B$$

$$\frac{x_1}{\frac{3}{2}} + \frac{x_2}{1} = 1 \qquad C$$

$$z \qquad z = 3x_1 + 5x_2 \quad /2$$

$$1 = \frac{x_1}{\frac{2}{3}} + \frac{x_2}{\frac{2}{5}}$$

rješenje - $x_1 = 0$, $x_2 = 1$

je je fronta rasta strmija $\left(\frac{\frac{x}{3}}{\frac{2}{5}} = \frac{5}{3}\right)$ od feasibility segmenta $\left(\frac{3}{2}\right)$

$$\max \quad z = 3 \cdot 0 + 5 \cdot 1 = 5$$

$$\max \quad z = 3x_1 + 5x_2 \qquad \rightarrow \qquad z - 3x_1 - 5x_2 = 0$$

$$uz \qquad 2x_1 + 3x_2 \le 5 \qquad \rightarrow \qquad 2x_1 + 3x_2 + x_3 = 5$$

$$2x_1 + 3x_2 = 3$$

$$x_1 + 5x_2 \ge 3 \qquad \rightarrow \qquad -x_1 - 5x_2 + x_4 = -3$$

$$x_1, x_1 \ge 0 \qquad \rightarrow$$

$$x_2 \ge 0 \qquad \rightarrow$$

$$2x_1 + 3x_2 \le 3 \qquad\qquad 2x_1 + 3x_2 \qquad + x_5 = 3$$

$$2x_1 + 3x_2 \ge 3$$

$$-x_1 - 5x_2 + x_4 = -3 \qquad -2x_1 - 3x_2 \le -3 \qquad -2x_1 - 3x_2 \qquad + x_6 = -3$$

BAZA	z	x_1	x_2	x_3	x_4	x_5	x_6		
z	1	-3	-5						0
x_3		2	3	1					5
x_4		-1	(-5)		1				-3	$\frac{3}{5}$ /: -5
x_5		2	3			1			3
x_6		-2	-3		1	1			-3
z	1	-2		-1					3
x_3		$\frac{7}{5}$		1	$\frac{3}{5}$				$\frac{16}{5}$	2.38
x_2		$\frac{1}{5}$	1		$\frac{-1}{5}$				$\frac{3}{5}$	3
x_5		$\left(\frac{7}{5}\right)$			$\frac{-3}{5}$	1			$\frac{6}{5}$	$\frac{6}{5}=0...$ /: $\frac{7}{5}$
x_6		$\frac{-7}{5}$			$\frac{-3}{5}$		1		$\frac{-6}{5}$
z	1				$\frac{-1}{7}$	$\frac{10}{7}$			$\frac{23}{7}$
x_3				1	0	-1			2	∞
x_2			1		$\frac{-2}{7}$	$\frac{-1}{7}$			$\frac{3}{7}$	$-\frac{3}{2}$
x_1		1			$\left(\frac{3}{7}\right)$	$\frac{5}{7}$			$\frac{6}{7}$	2 : /: $\frac{3}{7}$
x_6					C	1	1		0
z	1	$\frac{1}{3}$				$\frac{5}{3}$			(5)	→ max z=5
x_3				1		-1			2
x_2		$\frac{2}{3}$	1		0	$\frac{1}{3}$			1
x_4		$\frac{7}{3}$			1	$\frac{5}{3}$			2
x_6					0	1	1		0

$$\max \quad z = 5$$
$$x_1 = 0, \quad x_2 = 1$$

Postavio default TOLER

LPE -- Total of 19 records read

Goal function z   is in row 1
Row count =   5
Column count = 2
Structural coefficients count = 10
Matrix density = 100.000000 %
Lower bounds count = 3
Upper bounds count = 2

Amax = 1.000000   Amin = 0.300000

No primal errors
Maximum dual error :0
Solution is feasible
Maximum has been reached

***   Rows ***

No. Row	In	At	Activity	Lower Bound	Upper Bound	Slack Activ.	Dual Activity	Description
1 z	2	b	5	NONE	NONE	-5	0	
2 y1	2	b	3	0	5	2	0	
3 y2	2	b	5	3	NONE	2	0	
4 y3	2	u	3	0	3	0	1.666667	
5 y4	2	b	3	3	NONE	0	0	

*** Columns ***

No. Column	In	At	Activity	Lower Bound	Upper Bound	Objective Co.	Reduced Cost	Description
15001 x1	5	1	0	0	NONE	3	-0.3333333	
15002 x2	5	b	1	0	NONE	5	0	