

$$\begin{array}{rcllcl}
 \max & 3x_1 & + & 4x_2 & - & 2x_3 & & \\
 \text{za podmínek} & x_1 & - & 2x_2 & + & 3x_3 & \geq & 40 \\
 & 3x_1 & + & 5x_2 & + & x_3 & = & 50 \\
 & & & 3x_2 & + & 2x_3 & \leq & 30 \\
 & x_1 & & & & & \geq & 0 \\
 & & x_2 & & & & \in & \mathbb{R} \\
 & & & & & x_3 & \leq & 0
 \end{array}$$

	x_1 ≥ 0	x_2 $\in \mathbb{R}$	x_3 ≤ 0	
$y_1 \leq 0$	1	-2	3	≥ 40
$y_2 \in \mathbb{R}$	3	5	1	$= 50$
$y_3 \geq 0$		3	2	≤ 30
	≥ 3	$= 4$	≤ -2	min max

$$\min 40y_1 + 50y_2 + 30y_3$$

$$1y_1 + 3y_2 \geq 3$$

$$-2y_1 + 5y_2 + 3y_3 = 4$$

$$3y_1 + 1y_2 + 2y_3 \leq -2$$

$$y_1 \leq 0; y_2 \in \mathbb{R}, y_3 \geq 0$$