3 a)
$$max x_1 - 2x_2$$

 $\overline{z}P: x_1 + 2x_2 - x_3 + x_4 \ge 0$
 $4x_1 + 3x_2 + 4x_3 - 2x_4 \le 3$
 $-x_1 - x_2 + 2x_3 + x_4 = 1$
 $x_1 = x_1 - x_2 + 2x_3 + x_4 = 1$
 $x_2 = x_3 \ge 0$
 $x_3 \ge 0$
 $x_4 \in \mathbb{R}$

b) and teta the the plan I sedestanene shrivaletnimi apravani

$$0 = y_1(2,5+3,3) = 6y_1 = 0$$

$$2 = y_2(10 - 7 - 3) = 0y_2 = 0$$

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