

# Problem Solving: Homework 3.7

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## 1 [GC] Problem 29.1-4

minimize  $-2x'_1 + 2x''_1 - 7x_2 + x'_3$

subject to

$$-x'_1 + x''_1 - x'_3 \leq 7$$

$$x'_1 - x''_1 + x'_3 \leq 7$$

$$-3x'_1 + 3x''_1 - x_2 \leq 24$$

$$x'_1, x''_1, x_2, x'_3 \geq 0$$

where

$$x'_1 - x''_1 = x_1$$

$$x'_3 = -x_3$$