IT-University of Copenhagen

Intelligent systems programming

Mandatory exercise 8

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1)

Maximize: $-2x_1 + 3x_2$
Subject to:
$-x_1 + x_2 \leq 3$
$-x_1 + 2x_2 \leq 8$
$x_1 - 4x_2 \leq 4$
$x_1, x_2 \geq 0$

2)

Maximize: Z
Subject to:
$x_3 = 3 + x_1 - x_2$
$x_4 = 8 + x_1 - 2x_2$
$x_5 = 4 - x_1 + 4x_2$
$Z = -2x_1 + 3x_2$
$x_1, x_2, x_3, x_4, x_5 \geq 0$

3)

4)

5)