

MITx: 15.053x Optimization Methods in Business Analytics

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Lecture

Lecture questions due Sep 27, 2016 at 19:30 IST

Recitation

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Big M Exercise

(1/1 point)

Suppose that we are solving a linear program in which

$$0 \le x_1 \le 10, 0 \le x_2 \le 20$$
, and $0 \le x_3 \le 30$.

What is the minimum value of M under which the following constraint is guaranteed to be redundant?

$$x_1-2x_2+3x_3 \leq M+5$$

55

- 95
- 0 105
- 0 135

SOLUTION

95 because

- $x_1 \leq 10$
- $-2x_2 \leq 0$
- $3x_3 \leq 90$
- M + 5 = 100

You have used 1 of 2 submissions

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