# Big M Exercise

(1/1 point)
Suppose that we are solving a linear program in which
$0 \leq x_1 \leq 10, 0 \leq x_2 \leq 20, \text{ and } 0 \leq x_3 \leq 30.$

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 ✔
- 105
- 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*