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Lecture
Lecture questions due Oct 11, 2016 at 19:30 IST

Recitation

Problem Set 5
Homework 5 due Oct 11, 2016 at 19:30 IST

Changing Coefficients 2 Exercise

(1/1 point)
Suppose that the amount of production capacity increased from 60 to 62 to and the amount of warehouse capacity increased from 150 to 165. What is the increase in the optimal objective value? Answer "-1" if there is not enough information to determine the correct answer.

2

✔ **Answer:** 2

2

EXPLANATION

Solution

The correct answer is 2. We are changing two RHS coefficients. By the 100% rule, we divide all allowable changes of RHS coefficients in the SR by 2. After dividing by 2, we see that the allowable increases of 2 for production capacity and 15 for warehouse capacity are allowed. The change in the optimal objective value is $(2 \times 11/14) + (15 \times 1/35) = 11/7 + 3/7 = 2.$

You have used 1 of 2 submissions