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I am aware that any forms of cheating in this exam will result in a zero grade and a disciplinary investigation. I accept all rules and regulations regarding online exams. I give permission for the processing of my personal data as stated in Clarification Text provided on the Faculty or Engineering website "

ρ1.

X1 X2

X3 lobor X1 lobor

\$8 profit

Type 1 Type 2

Production Puota => $450 \times_2$ $x_1 \leq 100 , \quad x_2 \leq 300$ Market Limits

Maximixe Profit: 8x, + 5x2

Constraints :

3x1 + x2 ≤ 450 3 Production Quota

X1 ≤ 100 } Market Limi
X2 ≤ 300

 \downarrow

Graph: 450Solution

Solutions 100, 150 100, 150 100, 150 100, 150 100, 150 100, 150 100, 150 100, 150 100, 150 100, 150

I am only checking these two vertices to ensure that we use the whole production quota since we want to maximize the profit

Let's check vertices :

6000 = 000.2 + 02.8

 $\delta.100 + 5.150 = 1550$ $P(100, 150) \triangle$

Then optimum
Solution would be:
50 Type 1 , 300 Type 2