I am aware that any forms of charling in this exam will rest me a zero gode and a discipling implication. Lacapt all rules and resolutions regulations regulations regulations are stone exams. I give permission for the processing of my personal later as shalled in the Clarkicales text provided on the Faculty of Engineering website.

First Baleici far

1. Will West produces two types of courses bets. A type 1 bet requires

three times as much lobor time as a type 2. If the all anaphololobor time is dedicted to Type 2 alone, the common can produce a total

of 4500 Type 2 bets a day. The model limits har the two types are 100

and 200 bests per des for Type 1 and Type 2 respectively. The profit is

\$8 per Type 1 bets and \$5 per Type 2 hel. Determine the number of

hels of each typ that would meximize profit.

in Build the methorological visible of the problem.

Xy = number of type 1 hots -X2= T= required time for Type 2 hot type 1 need 3t time.

dojective => z= 8x1 + 5x2 /maximize/

3/xy + 7x2 \$4507 3xy + x2 \$450 3xy + x2 \$450 3xy \$100 x2 \$200

1, 12 EIN

2= 84x+ 5×2 3+,+12 6450 x, \$ 100 x, \$ 300 12 5300 200 X1 5100 250 100 2=8. z = 8.100+5.150 = 1550 (due to bad drawing)

(due to bad drawing)

(due to bad drawing)

(Acrection SX, +X2-450 X, -100

(Az=150 z= 8, 80 + 5.300 = 1900 3 mal profit

RIG

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