Q1 Cem Anorol 1501197-61 W Wild west produces two types of comboy hots. A type 1 het requires three times as much lebor time as type 2. It the oil everlable lobar time is dedicated to Type2 olone, to company con produce o total of 450 type 2 hots a day. The market limits for the two types ore 100 and 300 hets perdey for type 1 and type 2 respectively. The profit is \$8 per typ 1 hot and \$5 per type 2 hat. Determine the number of hots of each type that would moximize profit.

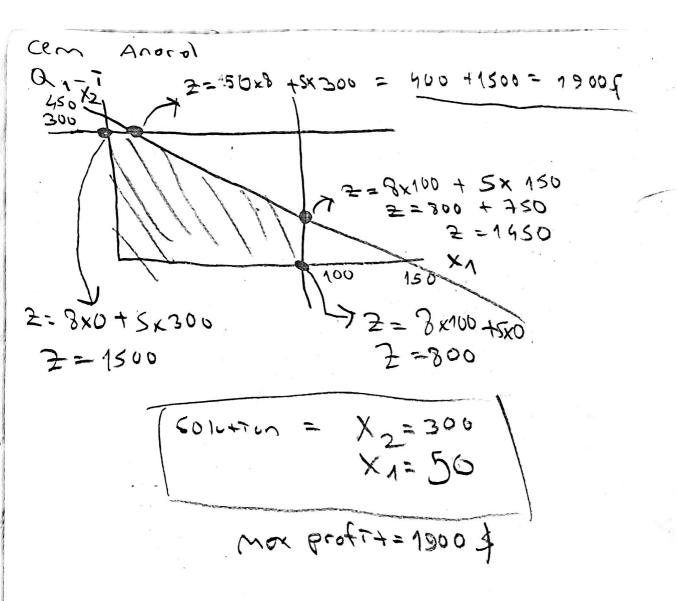
i. Boild the mothemotical model of the problem.

X1: type 1 hots produced

X2: type 2 hots produced 3 X1 + X2 & 450 X1 & 100 X₂ ≤300 X1, X2>0 2 = 9 X1 + 5 X2 20 moximize

Lir on owere that any form of cheeting in this exam will a zero grade and a disciplinary investigation. I every ston for the exam will stan for the processing online exam. I give permitted in the clarification textpoulded on the faculty of engineering of engineering of examples on the faculty of engineering site.

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