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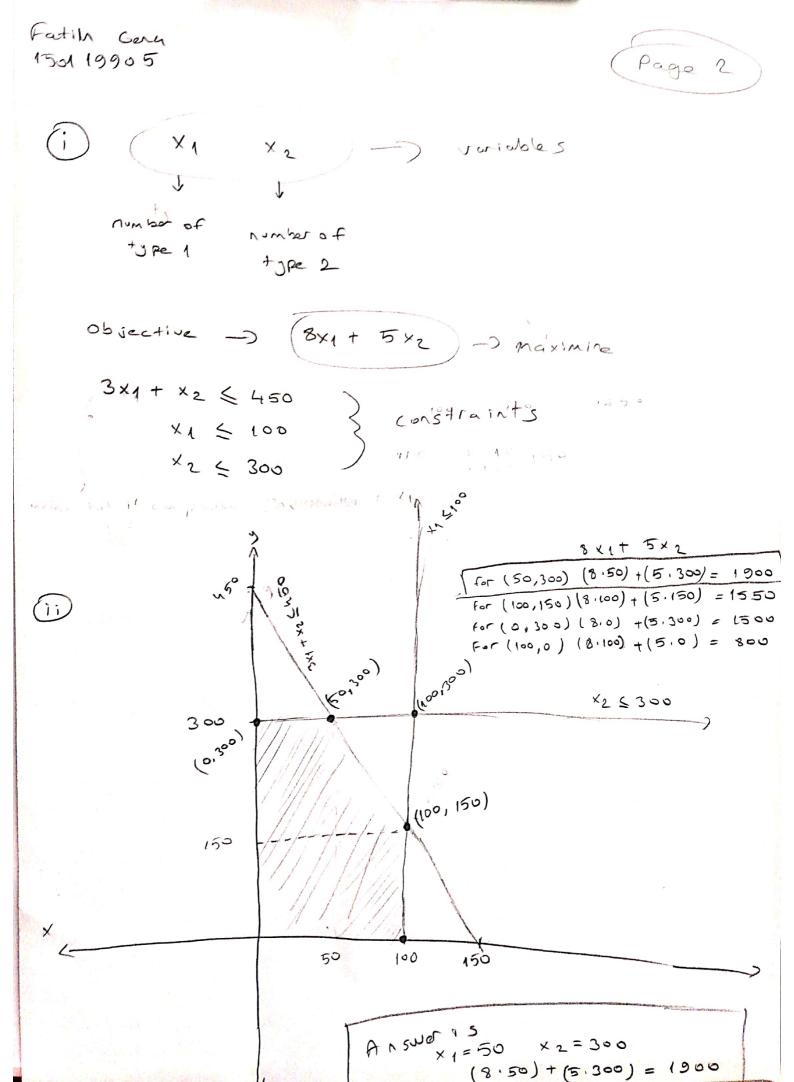
I E 3035 Quie 1

April 26 2023

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Fath Gara

- (Q1) Wild West produces two types of cowby hats. A type 1 hat requires three times as much labor time as type 2. If the all awailable labor time is dedicated to type alone, the company can produce a total of 450 Type 2 hats a day. The morbet limits for the two types are 100 and 300 hats per day for Type 1 and Type 2, respectively. The profit is \$8 per Type 1 hat and \$5 per Type 2 hat. Determine the number of hats of each type that would maximize profit.
 - i. Brild the nathenatical model of the problem ii. Solve the problem graphically.



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