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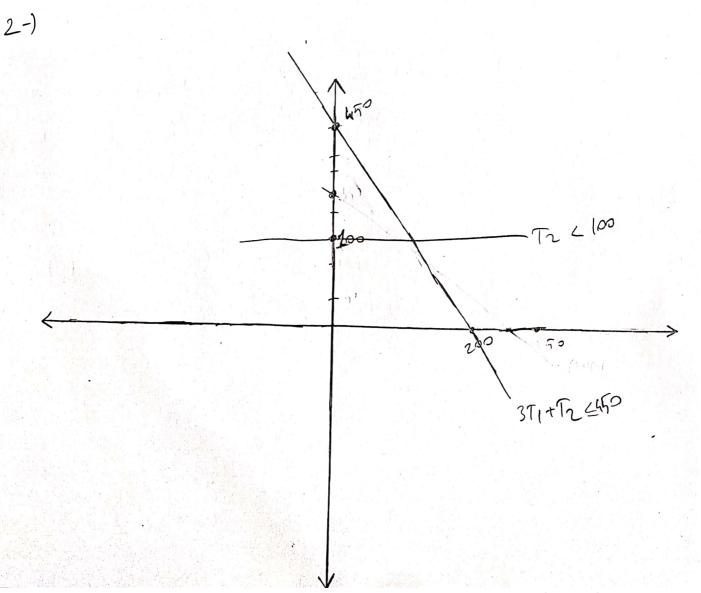
1-) wild west produces two types of combog hats. as much labor time typel hat requires three times a type?. If the all available labor time is dedicated type2 alone, the company can produce a total of type 2 hats a day. The market limits for the two types are 100 and 300 hats per day for Typel and Typel, respectively. The profits is \$8 per Feypel hat and \$5 per Type 2 hat. Determine the number of hats of each type that would maximise profit.

I-) Brild the naternatical model of the problem

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1-)
$$Max: 8T1 + 5T2$$

 $3T1 + T2 \le 450$
 $(\frac{3}{450})T1 + (\frac{1}{450})T2 \le 1$
 $T_{1} \le 100$
 $T_{2} \le 300$
 $T_{1}, T_{2} \ge 0$



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