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Q1) Wild west produces two types of cowboy hats. A type 1 hat requires three times as much labor time as a type 2. If the all available labor time is dedicated to Type 2 alone, the company can produce a total of 450 type 2 hats a day. The market limits for the two types are 100 and 300 hats per day for T_1 & T_2 respectively. The profit is \$8 per Type 1 hat and \$5 per Type 2 hat. Determine the num of hats of each type that would maximize profit.

i) build the mathematical model of the problem

ii) solve the problem graphically

