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Ans 1)

$3x_1 + x_2 \leq 450$

$x_1 \leq 100$

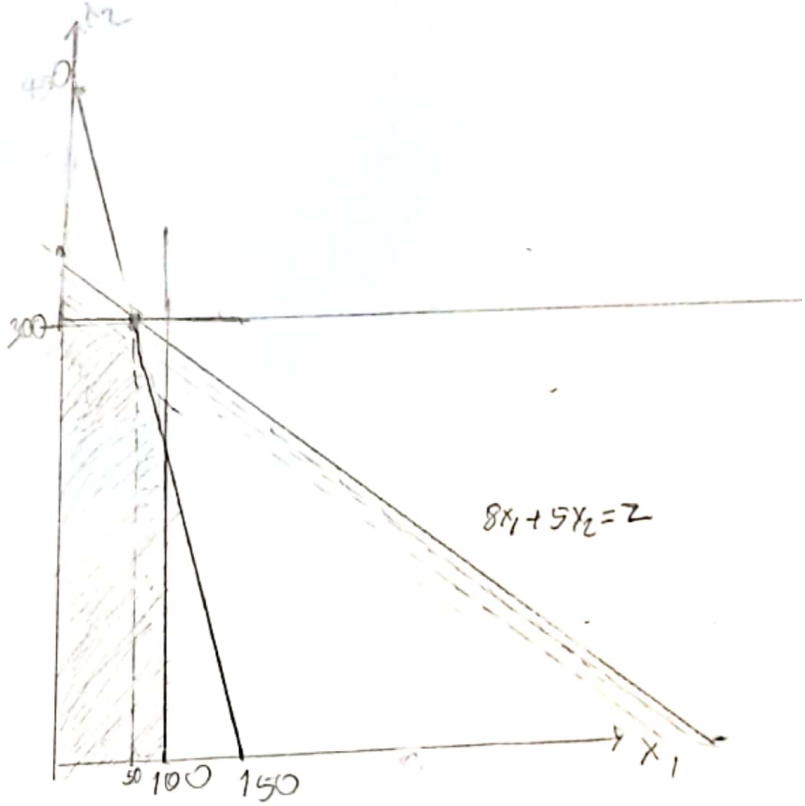
$x_2 \leq 300$

Maximize $8x_1 + 5x_2$

$x_1 = 50 \quad x_2 = 300$

$400 + 1500 = 1900$ is max

$8.50 + 300.5 = 1900$



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