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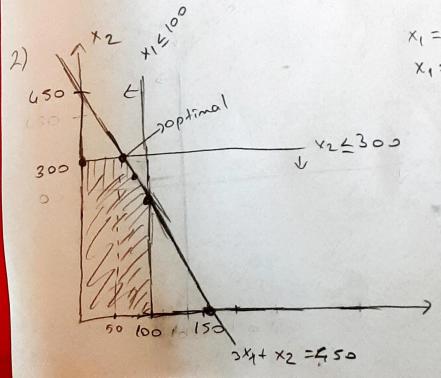
Il wild west produces two types of cow soy hats A type1 req. thee times as much labor time as type? If all labor dedicated to Type 2 production amount is 450 Type 2. Market limits for two types 100 and 300 per day T1 72. The profil \$8 per Type I and \$5 per Type 2. Determine number of hars of each Type max-profit Answer I. Build math. probbn II. solve graphically.

1) Type I = X1 type I = X2

3×1+ ×2 = 450 X1 < 100

×2 ≤ 300

X11 X5 30



x1 = 150 x=0) X1=0 X2=450

> 5012) $\times_1 = 150$ 7=800+750 2= 1550 \$

5012) $\times_1 = 50$ 2 = 400 + 1500 2 = 1900 \$ 1

optimal solution

50 Type I hats

300 Type I hats

Z= 8x1 + 5x2 (profit)