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Q.) Wild West produces two types of comboy hots. A type I hat requires tree times as much lobor time or a type 1. If the all available labor time is dedicated to type alone thre company can produce a total et 450 type II hots a day. The market limits for the two types are 100 and 300 hats per day for type I and type II respectively. The prefit is if per type I hat and 85 per type 2 hat. Determine the number of her of each type I hat of

1. Build the mothemetrical model

11. Solve the problem graphcally

Harol Banadu

Solution

	duce profit	max limit
X1 Type 1	8 \$	100
x2 typez	5\$	300

$$8 \times 1 + 5 \times 2 \rightarrow \text{max}$$

3 (100,250) 3 (100,250)

$$8 \times 1 + 5 \times 2 = 2$$

$$\times (0, 1150) \rightarrow 0 + 5.450 = 2250$$

$$\times 225.18 + 0 = 1800$$