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Align

Type 1 and Type 2 hats

Type 1 is 3 times longer to make than Type 2

In a day, company makes 450 Type 2 hats

Market Cap = Type 1 ≤ 100

Type 1 = 3 Type 2 = 0.1

Type 2 ≤ 300 Available hours = 450 T

Profit = $8x_1 + 5x_2$

$$3x_1 + x_2 \leq 450$$

$$x_1 \leq 100$$

$$x_2 \leq 300$$

Mathematically:

$(100, 150)$, $(0, 300)$, $(100, 0)$, $(50, 300)$ Profit

$$800 + 750 = 1550$$

1500 800

$(50, 300) \checkmark$
1900

graphically

