

* Home work

P-97 * Exercise 6.1

Q.1.

→ Let us assume No. of Gadgets produce A & B be x & y respectively.

i) objective Function

$$30x + 20y = \text{Maximize } Z$$

ii) Subject to

$$10x + 6y \leq 60 \rightarrow \text{Foundry Hours}$$

$$5x + 4y \leq 35 \rightarrow \text{Machine Shops Hrs}$$

iii) Non-Negativity Constraint

$$x, y \geq 0$$

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* Exercise 6.1

Q.6.

→ Let us assume No. of units of Fertilizers F_1 and Fertilizers F_2 be x and y respectively.

i) objective Function

$$\text{Maximize } z = 500x + 750y$$

ii) subject to:

$$2x + 3y \leq 40 \dots [\text{Raw material A}]$$

$$x + 4y \leq 70 \dots [\text{Raw Material B}]$$

iii) Non-Negativity Constraint

$$x, y \geq 0$$