



There is no feasible region and thus, Z has no maximum value.

Exercise 12.2

Question 1:

Reshma wishes to mix two types of food P and Q in such a way that the vitamin contents of the mixture contain at least 8 units of vitamin A and 11 units of vitamin B. Food P costs Rs. 60/kg and Food Q costs Rs. 80/kg. Food P contains 3 units /kg of vitamin A and 5 units /kg of vitamin B while food Q contains 4 units /kg of vitamin A and 2 units /kg of vitamin B. Determine the minimum cost of the mixture?

Solution 1:

Let the mixture contain x kg of food P and y kg of food Q. Therefore, $x \geq 0$ and $y \geq 0$. The given information can be compiled in a table as follows:

	Vitamin A (Units / kg)	Vitamin B (Units / kg)	Cost (Rs / kg)
Food P	3	5	60
Food Q	4	2	80
Requirement (units / kg)	8	11	

The mixture must contain at least 8 units of vitamin A and 11 units of vitamin B.

Therefore, the constraints are

$$3x + 4y \geq 8$$

$$5x + 2y \geq 11$$

Total cost, Z , of purchasing food is, $Z = 60x + 80y$

The mathematical formulation of the given problem is

$$\text{Minimize } Z = 60x + 80y \quad \dots (1)$$

subject to the constraints,

$$3x + 4y \geq 8 \quad \dots (2)$$

$$5x + 2y \geq 11 \quad \dots (3)$$

$$x, y \geq 0 \quad \dots (4)$$

The feasible region determined by the system of constraints is as follows:

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