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

Minimize $Z = 60x + 80y$ … (1)

subject to the constraints,

$3x + 4y \geq 8$ … (2)

$5x + 2y \geq 11$ … (3)

$x, y \geq 0$ … (4)

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

Answers For Linear Programming Basics

Melissa Dee McDaniel

Answers For Linear Programming Basics:

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