

Example 43. A manufacturing company makes three products, each of which requires three operations as part of the manufacturing process. The company can sell all of the products it can manufacture but its production capability is limited by the capacity of its operations centres. Additional data concerning the company are as follows:

Product	Manufacturing Requirement hours/unit			Cost (₹)	Selling Price (₹)
	Centre 1	Centre 2	Centre 3		
A	1	3	2	11	15
B	3	4	1	12	20
C	2	2	2	10	16
Hours Available	160	120	80		

What should the product-mix be? Write the dual of the given problem. Give its economic interpretation and use it for checking the optimal solution of the given problem.

[Delhi Univ. B.Com. (H) 2011]