

Dr. Raja Latif. Math 131-062. Sce:# 03

Test-II(3.3-3.6). Marks: 20, Time: 15 Minutes

Name: _____, I.D.# _____

Monday, March 26, 2007.

Abstract

Note: Show complete work for full credit.

Data	A	B	C	#
Product I	2	1	10	x
Product II	4	2	5	y
Product III	3	1	6	z
Supply (units)	370	170	830	

Q.1.Tan28TB133. (Marks:8). A manufacturer is producing three products: I , II , and III .

These products each require three ingredients, A , B , and C , to be used as shown.

The manufacturer has a supply of 370 units of A , 170 units of B , and 830 units of C .

Formulate a system of equations (without solution) to determine how many of each product the manufacturer should produce, in order to use all of the available supply.

Let x represent the number of Product I ,

let x represent the number of Product II ,

let x represent the number of Product III .

Q.2.100Tan45.(Marks:12). Solve the system of linear Equations:

$$x - 2y + z = 6$$

$$2x + y - 3z = -3$$

$$x - 3y + 3z = 10$$

$$x = \text{-----}$$

$$y = \text{-----}$$

$$z = \text{-----}$$