## **PRE TEST**

## **LINEAR ALGEBRAI**

1. A man is ordered by his doctor to take 5 units of vitamin A, 13 units of vitamin B, and 23 units of vitamin C per each day. Tree brands of vitamin pills are available, and the number of units of vitamin per pill are shown in the accompanying table:

Brand	Vitamin		
	Α	В	С
1	1	2	4
2	1	1	3
3	0	1	1

Find the model of this case as linear equations! Find the solution?

2. Determine the value of a,b,c,d such that the following system of linear equation has no solution, one solution and infinitely solutions:

$$ax + by = p$$

$$cx + dy = q$$