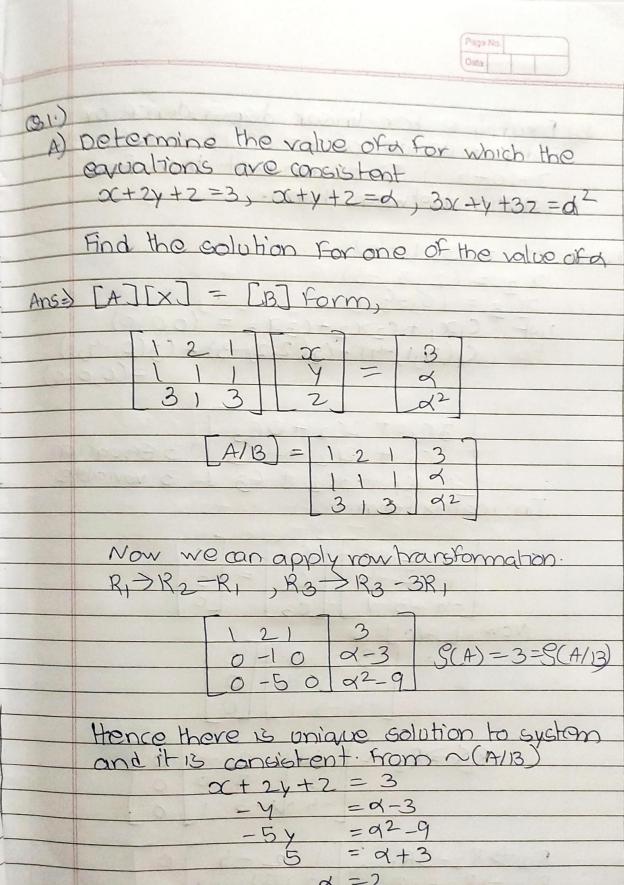
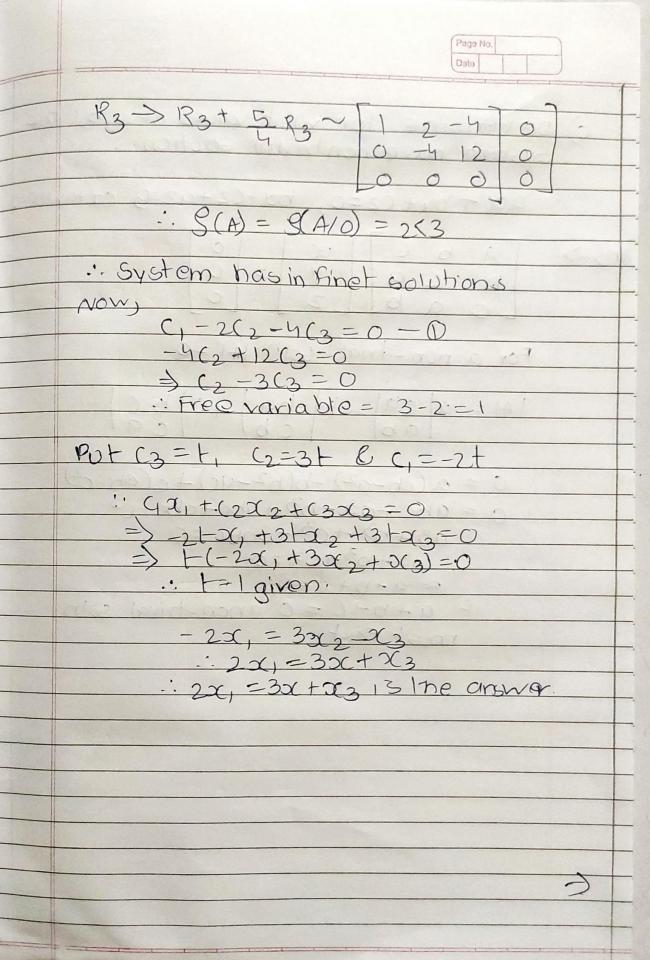
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This is the unique solution Ford.

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6)	The state of the s
(B)	Examine for linear dependence or independence of oc= (3,1;-4) y=(2,2,3) = z=(0,-4,1). If dependent then find relation between them.
Ans=	$ \begin{array}{l} \alpha_1 = (3, 1, -4) \\ \alpha_2 = (2, 2, -3) \\ 3(3 = (0, -4, 1)) \\ 10+ (10x_1 + (2)(2 + (3)(3 = (0, 0, 0)) \\ (1(3,1,-4) + (2(2,2,-3) + (3(0,-4,1)) \\ = (0,0,0) \end{array} $
	3C1 + 2C2 + OC3 C1 + 2C2 + - 4C3 + 3 equation
	In matrix form.
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	= 320 12-40 -4-310
	R2 > R2 ~ [] 2 4 0 3 2 0 0 -4 V-3 1 0
	$R_2 \rightarrow R_2 - 3R_1$ 0 1 2 -4 0 $R_3 \rightarrow R_3 + 4R_1$ 0 1 1 1 1 0 0 1 1 1 1 1 1 1 1 1 1



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<u>c)</u>	Determine for what values of a bythe system have non trivial solution. asct byt (z=0, batcztaz=9 catay+bz+
Ans->	[a b c] x [o] b c a y = 0 c a b z] 0 For a non-trial solh H = 0
	a3+b3+c3-3abc=0 $a3+b3+c3=0$ $a+b+c=0$ if $a+b+c=0$ anon-trival solutions the exist

