	Tutoriale on Matricel Hardik Shah.  Div: D2 Roll No. 25.  PAGE NO.:  DATE: / / UNIVERSAL
	Question 1
	$A = \begin{bmatrix} 1 & 2 & -1 & 3 \\ 3 & 4 & 0 & -1 \end{bmatrix}$
	-10-27
	Elementary row transformation:
_	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
_	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
_	$R_3 \rightarrow R_3 + R_2 = \begin{bmatrix} 1 & 2 & + 1 & 3 \end{bmatrix}$
	0 -2 3 10
+	
	No. of non-zero rows = 2.

Hence, Rank of matrix A is 2.

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10 10	,		
Justion 2	Γ.	1	1.7
2+4+42=1	4.1		9
2+ (2y-2Z=1 =)	1!	2	- 1/2
AQ+4+2=1	L	1	
	8 98	v =	V. Sec

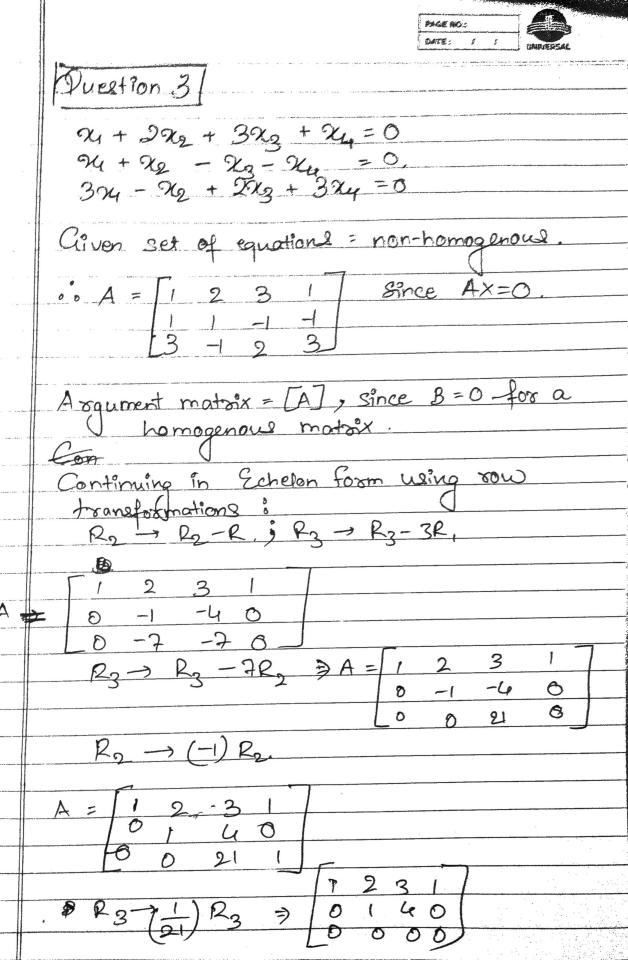
(1) unique solution i 
$$D \neq 0$$
,  $D \neq 0$ 

as we get a unique solution at  $1 + \frac{7}{10}$ 

(ii) No solution => D = 0  

$$\stackrel{\circ}{\circ}$$
 At  $\lambda = \frac{7}{10}$ , we get  $\stackrel{\bullet}{\circ}$  W

no Solution.



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	P(A) = 3
	P(A) < no. of unknown variables.
9.4	P(A) < 4.
	infinite solutions; the solutions can be
	infinite solutions: The solutions can be
	found out as below:
	24 + 22/2 + 32/3 + 24 = 0 1.
	x2 + 4x3 = 0 -(2)
	23 =0 -3
	We can choose, (n-8) variable
	que. (4-3) = 1 variable of our choice:
	Let => 2 = k; KER.  [23=0]
	[92 = 0] Substitute in (2)
	244(0)=0 $22=0$
	7 ( )
	Subs. Rg and My, ou in (1).
	K + 200) + 3(0) + 90 = 0
	x + 24 = 0 24 = 8 - K
	24 = 8 - K
	Hence 94=k, 92=0, 92=0 & 94=-k
,	

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