D .4	
Proble.	. Consider the system
	$\infty + hy = 1$
	2x + y = p.
Find ?	, µ ∈ R such that the eyetem has
i) no 1	o Lutions
ii) a 1	vigne solution into no of solutions
2 o Turrum	- Consider the augmented matrix
	$R_2 \longrightarrow R_2 - 2R_1 / 1 \rightarrow 1$
	$R_2 \longrightarrow R_2 - 2R_1 \begin{pmatrix} 1 & \lambda & 1 \\ 0 & (1-2\gamma) & \mu-2 \end{pmatrix}$
	· · · · · · · · · · · · · · · · · · ·
i) I	$n = \frac{1}{2} & \mu \neq 2$
	Then the rank (A) = 1 but nank (A B) = 2
ii) I	n = 1/2 & m=2
	Then nank (A) = lank (A/B) = 1 < no. of unknowns
	=> The system has infinite no. of solutions
	y=0 =) x=1-0/2
	The robution set 30
	{ (1-0/2,0) : 0 e R}
1:19	% ≠ V ₂
119 1	γ λ ≠ ½_
	91 ank (A) = 2 = rank (A B) = no. of unknowns => The system has a unique solution.
	$\begin{pmatrix} 1 & \lambda & 1 \\ 0 & 1-2\lambda & \mu-2 \end{pmatrix}$
0	
R2-	$\frac{1}{1-2\lambda} \begin{array}{c ccccccccccccccccccccccccccccccccccc$

5)
$$C([0,1]) = \{f: [0,1] \longrightarrow \mathbb{R} : f$$
 is continuous f f is a vector effect over f .

