h 321 2,3 (31) A and Log are onto What about 3% Conto 9 0 (ov20) 8 o be latorde 507 ナ

(	So C2 is countable.
1	
1	= Q U the Set of Irichard numbers
	Vole: Decirc Number
	Decirc Nunder
	32/.123
	= 3010 + 2°10 + 1°10 + 1°10 + 2°10 + 3°10
	<i>Θ</i>
	So Q 13 either a decimal that territates of reports,
	terrivates of reflects,
	· · · · · · · · · · · · · · · · · · ·
	3,413
	1 Jole: Hose are egith.
	ma John Hose are ogori.
	So Iretional doesn't terminate and obesn't report
	(ex) 01/01/00/0000/

Conjecture: PL is not countable D. (Controdiction) assure of is countable Consider the nterns all deciral's between 2011) are and by TR is assured countable than Toyi) any real is gon to be.. Ci = 0.di diz diz diy ... dij = {0,1,2,3,..,53 li (1=0.10209973... Controle says a Sijector fon Eljzzz. -3 to Fi exists... let of be ( = 0. dudiadis - -2 - 0. del drades - -3 / 13 = 0.dzn dzz dsz - --4->14=0.941995-

	t we toos out of Journals each real (1:) is unique.
	each real (1:) is unique.
	onsider 1x = 0.0x1 0x2 0x4
۲	1x 0,0x1 0x2 0xy
	$\int 3 dy = Z$
	$d_{x1} = \begin{cases} 3 & d_{11} = 2 \\ 2 & d_{11} \neq 2 \end{cases}$
	CCONFC
	$\lambda = \frac{5}{3} \frac{3}{3} \frac{3}{3} = \frac{1}{3}$
	$0*1 = \begin{cases} 3 & \text{du} = 2 \\ 2 & \text{du} \neq 2 \end{cases}$
	S Dut
	$\frac{1}{2} \frac{1}{2} \frac{1}$
	$\begin{array}{c} -5000        \text$
	So rn 15 one-to-one and onto
	Tall reals
	ar courted
	and Ix was not counted. In is not onto
	N 13 Veil Octo
	= P (Contradiction)
	R is uncountable

