Dr. Invene Matraxa	
Fund the Canditai on a and b	
that notes the matrix A inventible	) )
and find. A when it exists	
$A = \begin{bmatrix} 9 & 6 & 5 \\ a & a & 6 \\ a & a & a \end{bmatrix}$	7
). Pdi invertible what is A	- h lla
Early to spot, when matrix snot inven	
1) Colum of 0's 2) raw of 0's	
1) two chows I that are same 2) two raws I	

het Chack au notrix . A continuentable of a=0 [raw 3] or a=bthe to find muse of metrix: hrite, grant of A T > T AT hen perform Elmeration Steps, and stop ance you find I

hets de Camputations:

A want to make (2,1)=0

so we subtract raw 1 frammas

row2-raw1

Frist unte aut raw 1 055

$$a = 0$$
 $a - a = 0$ 
 $a - b = a - b$ 
 $a - b = 0$ 

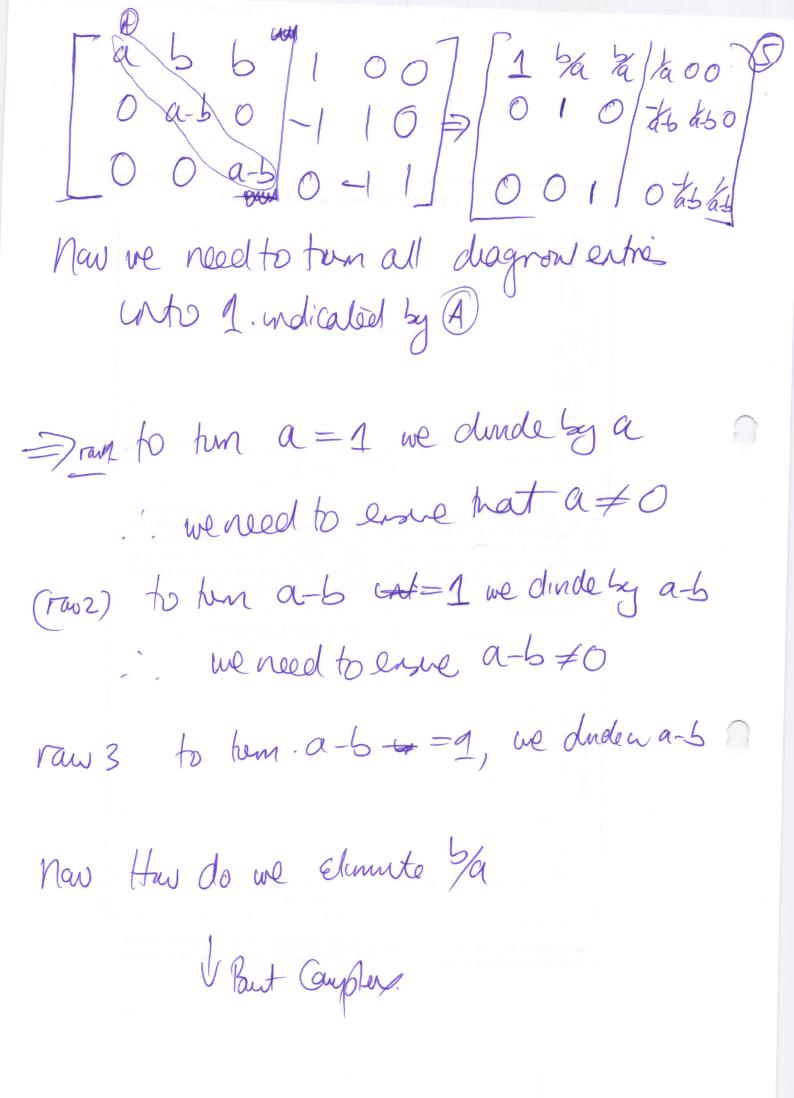
-> hen do the Same for 3rd row

· rav 3 - raw 1

above 
$$\bigcirc$$
  $-1 = -1$ 
 $0 - 0 = 0$ 
 $1 - 0 = 1$ 

1.0 = Now need to Elimite (a-5) in row 3 : Fustrav Jay Same and raw 11 11 Subtract raws from raw 2 a-b)-0 = a-b -1-(1)= -1+1=0

-1-(1)= -1+1=0 0=1=1 (ab)-a=(ab) 0ah 1-0=1



$$\Rightarrow A = \left[\frac{1}{2a} - \frac{1}{2a}(1+0)\right]$$

$$= \frac{1}{2a} - \frac{1}{2a}(1)$$

$$= 0$$

$$\Rightarrow B = \begin{bmatrix} \frac{5}{4} - \frac{5}{4}(0+1) \\ \frac{5}{4} - \frac{5}{4}(1) \end{bmatrix}$$

$$= \begin{bmatrix} \frac{5}{4} - \frac{5}{4}(1) \\ \frac{7}{4} - \frac{5}{4}(1) \end{bmatrix}$$

Leto Clean Haip:

 $A^{-1} = \frac{1}{a-b} \begin{bmatrix} 1 & 0 & -ba \\ -1 & 1 & 0 \\ 0 & -1 & 1 \end{bmatrix}$ 

Continue de Colonia de Maria de Caralles d

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