13/5/23

Mathematical foundation

1. Runk of maties

Rank of matrice define consignment of length square submodus and now a colours in a square matrice.

2. Show by matrice wellhood

20C+44+z=6, x+y+z=6, 2x+3y+z=6

= 2(1-3)-4(1-2)1(3-2)

$$adj A = \begin{cases} 2 & 4 & 1 \\ 1 & 1 & 1 \\ 2 & 3 & 1 \end{cases}$$

A11= 3

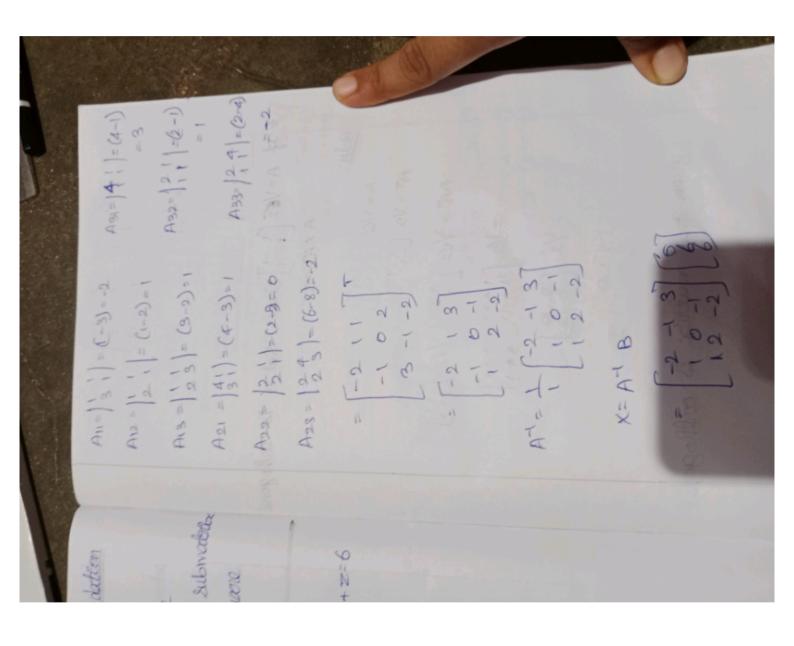
A12 = 12

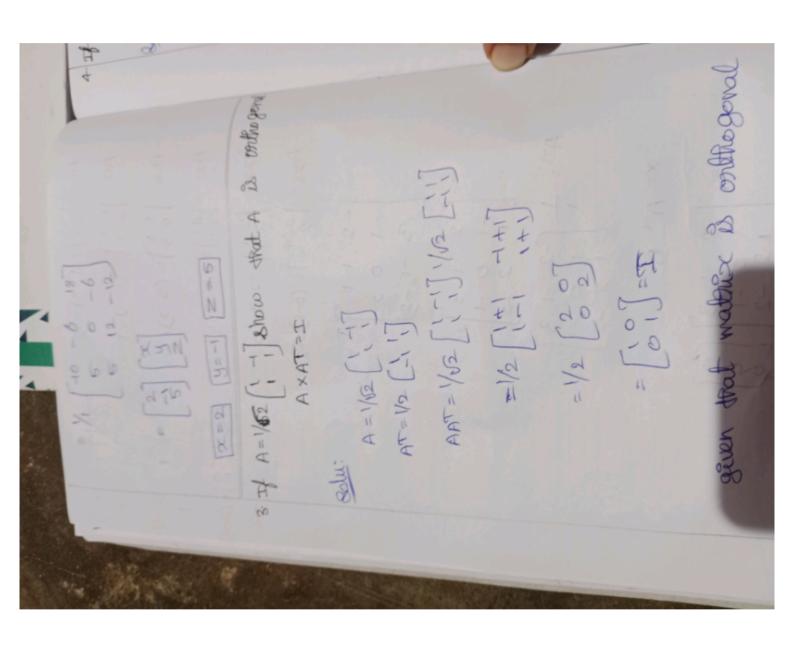
A13=13

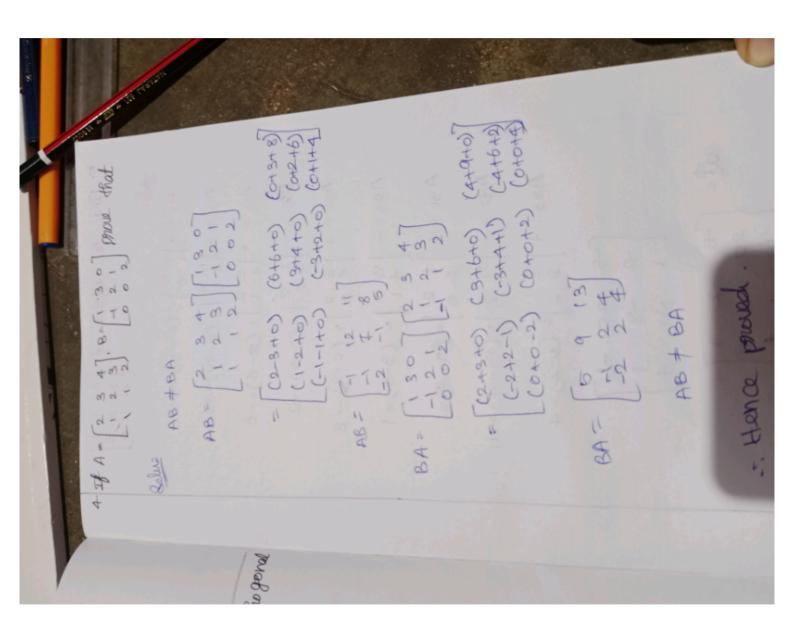
A21 =1

A22=

A23=







5. Find the adjoint of 
$$\begin{bmatrix} 3 & 1 & 2 \\ 2 & 2 & 5 \\ 4 & 1 & 0 \end{bmatrix}$$

An = 
$$+ \begin{vmatrix} 2 & 5 \end{vmatrix} = (0 - 6) = -5$$
  
An =  $+ \begin{vmatrix} 2 & 5 \end{vmatrix} = (0 - 20) = +20$   
An =  $+ \begin{vmatrix} 2 & 7 \end{vmatrix} = (2 - 6) = -6$   
An =  $+ \begin{vmatrix} 2 & 7 \end{vmatrix} = (2 - 6) = -6$   
An =  $+ \begin{vmatrix} 2 & 7 \end{vmatrix} = (0 - 2) = +2$   
An =  $+ \begin{vmatrix} 3 & 2 \end{vmatrix} = (0 - 2) = +2$   
An =  $+ \begin{vmatrix} 3 & 7 \end{vmatrix} = (3 - 4) = 1$   
An =  $+ \begin{vmatrix} 1 & 2 \\ 2 & 6 \end{vmatrix} = (6 - 4) = 1$   
An =  $+ \begin{vmatrix} 3 & 7 \end{vmatrix} = (6 - 4) = -11$   
An =  $+ \begin{vmatrix} 3 & 7 \end{vmatrix} = (6 - 2) = 4$   
An =  $+ \begin{vmatrix} 3 & 7 \end{vmatrix} = (6 - 2) = 4$   
An =  $+ \begin{vmatrix} 3 & 7 \end{vmatrix} = (6 - 2) = 4$ 

$$adf = \begin{bmatrix} -5 & -2 & 1 \\ 20 & -8 & 41 \\ -6 & 1 & 4 \end{bmatrix}$$