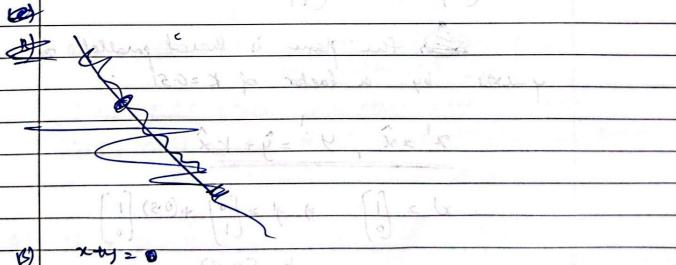
$$x' = \begin{bmatrix} 1 \\ 0 \end{bmatrix} (\sqrt{3}/2) + \begin{bmatrix} 0 \\ 1 \end{bmatrix} (-4) + \begin{bmatrix} 1 \\ 1 \end{bmatrix} (-4) + \begin{bmatrix} 1 \\ 1 \end{bmatrix} (\frac{3}{2})$$

Sank @ 2

(ii) for null space of (AT) dim N(AT) = m-Y=2-2=0

(iii) for null space of (AT) dim N(AT) = m-Y=2-2=0

(iii) for column space and low space.



C = [1 /2] dim (c) = dim (1) = \$ = 2 . (iii) for new space of CT, dim N(CT) = m-r=2-20 (D) the transformations are applied to the order A, B and C. We need to find the deimensions C.B.A M= CBA = (1) for to solumn space and now space dim CM = don CM) = 5=2 (ii) for dull space, dim (NM) = n-r = 2-2=0. H = Span

7

4

1

2

2

12

2

x, x2 and x; are the leading voriables

nank = 311

5