```
Oz. Let A=[ 1 4 ] Determine the 4 foundamental subjaces
                             Colus). Colust). Null (A). Null (AT).
               =>. A ~ [ - 2] :. col(a) = \(\lambda_1[\dagger] + \(\lambda_2[\dagger] \) + \(\lambda_2[\dagger] \)
                                                                                                                                                                                                                                                                                                                                                                                                                     = \begin{bmatrix} \lambda_1 - \lambda_1 + 2\lambda_3 \\ \lambda_1 + \lambda_3 \end{bmatrix} = xy plane.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (XII) ANER
                                                                                                                                                                          { x-y+2=0. |x=-3= ... Nullub) = x[-3] (KER)
                          A^{T} = \begin{bmatrix} 1 & 2 \\ 4 & 2 \end{bmatrix} \times \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} \quad \text{and} \quad \text{of} \quad \text{o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (A,, Az) ER
                                              x=0. [0] [x=0. [x=0
y=0. [0] [x] 0. [y=0 -'. Null(AT) = [0]
```