40 Minh Day - 111156 22029.

Week 2:

$$BA = \begin{bmatrix} 4 \times 2 + (-5)(-3) & 4 \times 5 + (-5)(1) \\ 3 \times 4 + (-5)(-3) & 3 \times 5 + C \end{bmatrix} = \begin{bmatrix} 23 & 15 \\ 6-36 & 15+12 \end{bmatrix}$$

$$AB = \begin{pmatrix} 3a - 6c & 36 - 6d \\ -1a + 2c & -1b + 2d \end{pmatrix} = \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$$

b) B. C = BC = 3 x 9

Therefore, m= 3; K=4

 $(m \times n).(n \times K) = lm \times K)$ 

=> m -> qvow; k-> column

Su Bhas 3 rows

$$= \int_{X_{1}}^{X_{1}} \frac{13}{3} = \int_{X_{2}}^{X_{1}} \frac{13}{3} = \int_{X_{2}}^{X$$

a) 
$$A + 20B = con not$$

B.  $A = \begin{pmatrix} 1 & -1 & -2 \\ 2 & 1 & -2 \end{pmatrix} \begin{pmatrix} 1 & 1 \\ -2 & -1 \\ 1 & 2 \end{pmatrix} = \begin{pmatrix} 1 \times 1 + (-1)(-2) + (-2)(1) & 1 + (-1)(-1) + (-2)(2) \\ 2 \times 1 + 2 & 1 + (-1)(-2) + (-2)(1) & 2 \times 1 + 2 & 1 + (-1)(-1) + (-2)(2) \end{pmatrix}$ 

$$= \begin{pmatrix} 1 & -1 & -2 \\ 2 \times 1 & -2 \end{pmatrix} = \begin{pmatrix} 1 & (-1)(-1) + (-2)(1) & 2 \times 1 + 2 & 1 & 1 \\ -2 & -3 \end{pmatrix}$$

$$B - 5A^{T} = \begin{pmatrix} 1 & -1 - 2 \\ 2 & 1 - 2 \end{pmatrix} - 5 \begin{pmatrix} 1 - 2 & 1 \\ 1 & -1 & 2 \end{pmatrix} = \begin{pmatrix} 1 - 1 - 2 \\ 2 & 1 - 2 \end{pmatrix} - \begin{pmatrix} 5 & -10 & 5 \\ 5 & -5 & 10 \end{pmatrix} = \begin{pmatrix} -1 & 9 & -7 \\ -3 & 6 & -12 \end{pmatrix}$$

$$AC = com not$$

$$11 + 1(-2) + (-3)1$$