$$3 - (0) \quad \tilde{\beta}_{0} \gamma_{2} = (\tilde{\beta}_{0})^{2}$$

$$\tilde{\beta}_{0} \gamma_{2} = (\tilde{\beta}_{0})^{2} \quad (2 \times i \tilde{\beta}_{2})^{2}$$

$$\alpha_{1} \times b_{1} = -(1 \times 3 + 2 \times 2 - 1)$$

$$3 \times b^{2} = (\alpha_{1}, \alpha_{2}, \dots, \alpha_{N}) \quad ol2 \quad b = \begin{pmatrix} b_{11} \\ b_{21} \\ \vdots \\ b_{N} \end{pmatrix}$$

$$\tilde{\alpha}_{1} \times b^{2} = \langle \alpha_{1}b_{1} \rangle = \alpha_{1}b_{1} + \alpha_{2}b_{2} + \dots + \alpha_{N}b_{N} = \sum_{i=1}^{N} \alpha_{i}b_{i}$$

$$\tilde{\alpha}_{1} \times b^{2} = \langle \alpha_{1}b_{1} \rangle = \alpha_{1}b_{1} + \alpha_{2}b_{2} + \dots + \alpha_{N}b_{N} = \sum_{i=1}^{N} \alpha_{1}b_{i}$$

$$\tilde{\alpha}_{2} \times b^{2} = \langle \alpha_{1}b_{1} \rangle = (\alpha_{1}) \cdot b_{1} = (\beta_{1}) \cdot b_{2} = (\beta_{1}) \cdot$$

$$Ab = \begin{pmatrix} \vec{a}_{1} \\ \vec{a}_{2} \\ \vdots \\ \vec{a}_{m} \end{pmatrix} b = \begin{pmatrix} \langle \vec{a}_{1}, b \rangle \\ \langle \vec{a}_{2}, b \rangle \\ \vdots \\ \langle \vec{a}_{m}, b \rangle \end{pmatrix} = \begin{pmatrix} \sum_{i=1}^{n} a_{1i}b_{i} \\ \sum_{i=1}^{n} a_{2i}b_{i} \\ \vdots \\ \sum_{i=1}^{n} a_{mi}b_{i} \end{pmatrix} = \begin{pmatrix} a_{11}b_{1} + a_{12}b_{2} + \dots + a_{1m}b_{n} \\ a_{21}b_{1} + a_{22}b_{2} + \dots + a_{2m}b_{n} \\ \vdots \\ \sum_{i=1}^{n} a_{mi}b_{i} \end{pmatrix}$$

$$(a_{11}b_{1} + a_{12}b_{2} + \dots + a_{1m}b_{n})$$

$$(a_{11}b_{1} + a_{12}b_{2} + \dots + a_{1m}b_{n})$$

$$(a_{11}b_{1} + a_{12}b_{2} + \dots + a_{1m}b_{n})$$

$$A = \begin{pmatrix} \alpha_1 \\ \alpha_2 \end{pmatrix} = \begin{pmatrix} -1 \\ 1 \end{pmatrix} = \begin{pmatrix} 0 \\ 2 \end{pmatrix} = \begin{pmatrix} 1 \\ 2 \end{pmatrix} = \begin{pmatrix} 3 \\ 2 \end{pmatrix}$$

$$A \times B = \begin{pmatrix} \alpha_1 \\ \alpha_2 \end{pmatrix} =$$

$$A = \begin{pmatrix} a_1 \\ a_2 \\ \vdots \\ a_m \end{pmatrix} = \begin{pmatrix} a_{11}, a_{12} & \cdots & a_{2n} \\ a_{21}, a_{22} & \cdots & a_{2n} \\ \vdots \\ a_{m1}, a_{m2} & \cdots & a_{mn} \end{pmatrix} \begin{pmatrix} B = (b_{11}b_{21}, b_{22}, \cdots b_{k}) \\ b_{21}, b_{22} & \cdots & b_{2k} \\ \vdots \\ b_{m1}, b_{m2} & \cdots & b_{mk} \end{pmatrix}$$

$$AB = \begin{pmatrix} \alpha_1 \\ \alpha_2 \\ \vdots \\ \alpha_{2n} \end{pmatrix} \begin{pmatrix} b_1, b_2, \dots b_k \end{pmatrix}$$

$$= \langle \alpha_1, b_1 \rangle \langle \alpha_1, b_2 \rangle, \dots \langle \alpha_n, b_n \rangle$$

$$= \langle \alpha_2, b_1 \rangle \langle \alpha_2, b_2 \rangle, \dots \langle \alpha_n, b_n \rangle$$

$$= \langle \alpha_n, b_1 \rangle \langle \alpha_n, b_2 \rangle, \dots \langle \alpha_n, b_n \rangle$$

$$= \langle \alpha_n, b_1 \rangle \langle \alpha_n, b_2 \rangle, \dots \langle \alpha_n, b_n \rangle$$

$$= \langle \alpha_n, b_1 \rangle \langle \alpha_n, b_2 \rangle, \dots \langle \alpha_n, b_n \rangle$$

$$\frac{73751}{AB} = \left(\frac{14}{80}\right) \left(\frac{000}{311}\right)$$

3472 B

3423 []

	> 0	1	0
	→ O	-3	( )
1 4	1×0 + 4×0	4×(-3)	1 × 0 + 4 × (1
0 (	0 × 0 + 0 × 0	0×(-3)	0 K (  + 0 X 0
g (	) 8x0 + 0×0	8×1 + 0×-3	3×11

\_

3472 B

1 2422	
1	

		<del>-&gt;</del> 0	l	0
		$\rightarrow$ $\bigcirc$	-3	( )
1 4	<u>.</u>	0	-3	44
Ō	6	0	0	0
8	0	0	8	0

17524 HY 9 7hge 对22001 对象水

$$A = \begin{pmatrix} \alpha_1 \\ \alpha_2 \end{pmatrix} = \begin{pmatrix} \alpha_{11} & \alpha_{12} & \cdots & \alpha_{1n} \\ \alpha_{21} & \alpha_{22} & \cdots & \alpha_{2n} \\ \vdots & & & & \\ \alpha_{m1} & \alpha_{m2} & \cdots & \alpha_{mn} \end{pmatrix}$$

$$Q(\mathcal{E}_1) \quad O(3) \mathcal{Z}_2 \quad \mathcal{E} \quad \mathcal{E} \quad \mathcal{E}_2 \quad \mathcal{E}_3 \quad \mathcal{E$$

$$kA = k \begin{pmatrix} \alpha_1 \\ \alpha_2 \end{pmatrix} = \begin{pmatrix} h\alpha_{11} k\alpha_{12} & \dots & k\alpha_{1n} \\ k\alpha_{21} k\alpha_{22} & \dots & k\alpha_{2n} \\ \vdots & \vdots & \vdots \\ k\alpha_{m1} k\alpha_{m2} & \dots & k\alpha_{mn} \end{pmatrix}$$

$$A = \begin{pmatrix} -1 & 2 \\ 1 & 1 \end{pmatrix} = \frac{1}{2} \frac{1$$

## डे दे देश का भव स्ट्री

(1) 362 A St 362 B = 3550 052 A 9 get 2/454 342 BO(389) 2/52 26406 L) A= (mxn) dyz (B=(nxl) dyz 79.2 => HB = (mc/) / sing

$$A' = \begin{pmatrix} -1 & 2 \\ 1 & 1 \end{pmatrix} \quad B' = \begin{pmatrix} 3 & 1 & 2 \\ 23 & 0 \end{pmatrix} \quad 2^{2} \text{ and}$$

$$A' B' = \begin{pmatrix} 1 & 5 & -2 \\ 9 & 3 & 6 \end{pmatrix} \quad BA' = \begin{pmatrix} 4 & 2 \\ 1 & 7 \end{pmatrix}$$

$$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix} \times \begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$$

Cuality Matrix

SUSALAS Identity Mar

ax1 = a 21-7201 Pour 2401 242121 OLE 3472

别型1, 是是 01知到四步与公司分型12510亿,山地172000岁空

$$E = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} \dots = \begin{pmatrix} 0 \\ 0 \\ 0 \\ 0 \end{pmatrix}$$

$$\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} = \begin{pmatrix} 47 \\ 17 \end{pmatrix} \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} = \begin{pmatrix} 47 \\ 17 \end{pmatrix}$$