12201856 येपनु 华 密納 人的 影展 他就好.

1

Peri:
$$A = \begin{bmatrix} 0 & 0 \\ 0 & 1 \end{bmatrix}$$
 $B = \begin{bmatrix} 0 & 1 \\ 2 & 0 \end{bmatrix}$ $C = \begin{bmatrix} 0 & 3 \\ 1 & 0 \end{bmatrix}$

AB=AC=[00] OINPT B+COICT.

ATE Symmetricolate

(4) ★ . 거짓

धाना: leading धिटा गार्स्ट Aटा संगाधिक देन. (leading केंद्रागीर्स्ट संगाधिक इस्मिट) पियम क्राविनमं रिक्त.

$$\begin{pmatrix}
1 & 1 & 1 & 4 \\
0 & 0 & 1 & 2 \\
0 & 0 & 0^{2} - 4 & 0^{-2}
\end{pmatrix}$$

0.72

25/10114 2/3=2 OLEZ: $(0^{2}-4)2=a-2$. $(0+2)(9/2)\cdot 2=a/2$. V 20+4=1. 20=-3. $a=-\frac{3}{2}$.

$$0 \neq 2 \begin{pmatrix} 1 & 1 & 0 & 2 \\ 0 & 0 & 1 & 2 \\ 0 & 0 & 0 + 2 & 1 \end{pmatrix}$$

$$2(0+2) 2$$

- Atto Ot 2011.
- 해당 않음.
- (3) 무히 와 요= 3인 경우 토베다. A=201H나 A= 3인 경우.

$$\frac{3}{\begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix}} = \begin{bmatrix} 1+w \\ 1+2w \\ w \end{bmatrix}$$

$$\frac{Ax=b}{2x_3} \frac{Ax=b}{3x_1} \frac{2x_1}{2x_1}$$

$$b = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$$

$$\chi_1 = H\chi_3. \rightarrow \chi_1 - \chi_3 = 1$$

$$\chi_2 = 1 + 2\chi_3. \quad \chi_2 - \chi_3 = 1$$

$$\chi_3 = \chi_3.$$

$$\chi_4 = \frac{1}{2} = \frac{1}{$$

4.
$$A^{\dagger} = \begin{bmatrix} h & 0 & 0 \\ 0 & 2 & 1 \\ 0 & k & 0 \end{bmatrix} \qquad b^{\sharp} \begin{bmatrix} 3 \\ 1 \\ 2 \end{bmatrix}$$

$$b=\begin{bmatrix} 3\\1\\2 \end{bmatrix}$$

$$(A^{-1})^{2} = \begin{bmatrix} h & 0 & 0 \\ 0 & 2 & 1 \\ 0 & k & 0 \end{bmatrix} \begin{bmatrix} h & 0 & 0 \\ 0 & 2 & 1 \\ 0 & k & 0 \end{bmatrix} = \begin{bmatrix} h^{2} & 0 & 0 \\ 0 & kt4 & 2 \\ 0 & 2k & k \end{bmatrix}$$

$$X = \begin{bmatrix} h^{2} & 0 & 0 \\ 0 & kt4 & 2 \\ 0 & 2k & k \end{bmatrix} \begin{bmatrix} 3 \\ 1 \\ 2 & kt4t4 \\ 2kt2k \end{bmatrix} = \begin{bmatrix} 3h^{2} \\ kt8 \\ 4k & kt \end{bmatrix} = \begin{bmatrix} 3h^{2} \\ kt8 \\ 4k & kt \end{bmatrix}$$

即 神紀 湖川 是歌弘

bij=ixani

$$A = \begin{bmatrix} a_{11} & a_{12} & \cdots & a_{1n} \\ a_{21} & & & \\ \vdots & & \ddots & \\ a_{n1} & & & a_{nn} \end{bmatrix}$$

$$A = \begin{bmatrix} a_{11} & a_{12} & \cdots & a_{1n} \\ a_{21} & & & \\ \vdots & & & \\ a_{n1} & & & \\ a_{nn} & & & \\ \end{bmatrix}$$

$$B = \begin{bmatrix} 1 & a_{11} & 1 & a_{n2} & \cdots & 1 & a_{1n} \\ 2a_{21} & 2a_{22} & \cdots & 2a_{2n} \\ \vdots & & & & \\ + a_{n1} & - - & a_{nn} \end{bmatrix}$$

辛. B는. Aelioto11011. 25Horl 26H, w notes noth되次にる.

रेंगा िक्स अस्ति गर्थिष्टि रेंगिनि, deed 3/3 Koth-Std.

(대) de(B) = det(A) XIX2X3X 111X7분 한것이다.

D=n.(n+1).(n-2)3.2.10124.

12201856 감4명

6. का व्यवसार

क्यें हम्म प्राप्त प्रमाय प्रमायन परिप्रता. मिरामानी । शामानी मारियानी रामानी : के प्रता भारत भारत परिवासी परिव पिकिस्त्रं dees रहने अस्ति अप अक्षित्र.

ता का देखा. है।

% 35 传题学规

det(A) = a. a2. .. anol zet. + 000 000

1. A (MX2).

> det(ATA) = det(AT) det(A) = \dec(A)\ 22.

 $\begin{array}{c}
A^{T} = \begin{bmatrix} \alpha_{11} & \alpha_{21} & \cdots & \alpha_{n_1} \\ \alpha_{12} & \alpha_{22} & \cdots & \alpha_{n_2} \end{bmatrix}
\end{array}$

$$||V|| = \sqrt{\alpha_1^2 + \alpha_2^2}$$

$$||W|| = \sqrt{\alpha_2^2 + \alpha_{22}^2}$$

$$\frac{A - A^{T}}{n \times n} = \begin{bmatrix} a_{11}^{2} + a_{12}^{2} & a_{11}(a_{21} + a_{12}0a_{22} - \cdots - a_{1n}) \\ a_{21}a_{11} + a_{22}^{2} \end{bmatrix}$$

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则时 = A9时+K(A9对). (大女0) 01件况

OPEN decra)=decra)= docum

$$A = \begin{bmatrix} a_{11} & a_{12} & a_{13} & \cdots & a_{15} \\ a_{24} & \cdots & \cdots & a_{25} \\ \vdots & \ddots & \vdots \\ a_{51} & \cdots & \cdots & a_{55} \end{bmatrix}$$

$$= \begin{bmatrix} a_{11} + ka_{24} & a_{15} + ka_{24} & a_{15} + ka_{24} & a_{15} + ka_{24} \\ a_{21} & \cdots & a_{25} \\ \vdots & \ddots & \vdots \\ a_{51} & \cdots & a_{55} \end{bmatrix}$$

$$= \begin{bmatrix} a_{11} + ka_{21} & a_{12} + ka_{22} & a_{15} + ka_{24} & a_{15} + ka_{24} \\ \vdots & \ddots & \vdots \\ a_{55} & \cdots & \vdots \\ a$$

detca) = ana+apa+ m+ ansas

= (A11 + A12+111+ (A11-C12+11)+ (A15-C15)+K (O21C1+ (D5) O2C12+111+ O25-C15) o)ct.

5(2). A adj(A) = dee(A) I.

$$\frac{\det(\operatorname{adi}(A))}{\det(A)} = \det(\det(A)^{2} \cdot A^{-1})$$

$$= \left\{ \det(A)^{2} \cdot n \cdot \det(A^{-1}) \right\}$$

$$= \left\{ \det(A)^{2} \cdot n \cdot \det(A) \right\}$$