$$SII-I$$
(1)  $A0 = 0A = 0 + 9 + 0 \in V$ 
(1i)  $X, Y \in V, E \neq 3$ 

$$A(X+Y) = AX+AY$$

$$= XA+YA$$

$$= (X+Y)A$$
(1i)  $X \in V, E \neq 3$ 

$$A(KX) = KAX = KXA = (KX)A$$
(1)  $-(m) \neq 9 + V, I \neq M \land \neq 9 \Rightarrow 9$ 
(1)  $A \in V = 0$ 
(2)  $A \in V = 0$ 
(3)  $A \in V = 0$ 
(4)  $A \in V = 0$ 
(5)  $A \in V = 0$ 
(6)  $A \in V = 0$ 
(7)  $A \in V = 0$ 
(8)  $A \in V = 0$ 
(8)  $A \in V = 0$ 
(9)  $A \in V = 0$ 
(1)  $A \in V = 0$ 
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(6)  $A \in V = 0$ 
(7)  $A \in V = 0$ 
(8)  $A \in V = 0$ 
(8)  $A \in V = 0$ 
(9)  $A \in V = 0$ 
(1)  $A \in V = 0$ 
(1)  $A$ 

= (k, +k2+k3) A+ (k, -k2) B+ (-2k, -k2+k3) C = 0 D, B, O(\$(\$2\$\$\$172-2")

$$\begin{cases} k_{1} + k_{2} + k_{3} = 0 \\ k_{1} - k_{2} = 0 \end{cases} : \begin{pmatrix} 1 & 1 & 1 \\ 1 - 1 & 0 \\ k_{2} \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} = \begin{pmatrix} 1 & 1 \\ 1 & -1 \\ 0 \end{pmatrix} = \begin{pmatrix} 1 & 1 \\ 1 & -1 \\ 0 \end{pmatrix} = \begin{pmatrix} 1 & 1 \\ 1 & -1 \\ 0 \end{pmatrix} = \begin{pmatrix} 1 & 1 \\ 1 & -1 \\ 0 \end{pmatrix} = \begin{pmatrix} 1 & 1 \\ 1 & -1 \\ 0 \end{pmatrix} = \begin{pmatrix} 1 & 1 \\ 1 & -1 \\ 0 \end{pmatrix} = \begin{pmatrix} 1 & 1 \\ 1 & -1 \\ 0 \end{pmatrix} = \begin{pmatrix} 1 & 1 \\ 1 & -1 \\ 0 \end{pmatrix} = \begin{pmatrix} 1 & 1 \\ 1 & -1 \\ 0 \end{pmatrix} = \begin{pmatrix} 1 & 1 \\ 1 & -1 \\ 0 \end{pmatrix} = \begin{pmatrix} 1 & 1 \\ 1 & -1 \\ 0 \end{pmatrix} = \begin{pmatrix} 1 & 1 \\ 0 & 1 \\ 0 & 1 \end{pmatrix} = \begin{pmatrix} 1 & 1 \\ 0 & 1 \end{pmatrix} = \begin{pmatrix} 1 & 1 \\ 0 &$$

$$\begin{pmatrix}
1 & -1 & 2 & 1 & 0 \\
0 & 1 & 0 & 2 & 1 \\
0 & -1 & 1 & 1 & -2 \\
-1 & 1 & -3 & 3 & 1
\end{pmatrix}$$

$$A_1 A_2 A_3 B_4 B_2$$

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

$$\Rightarrow \begin{pmatrix}
1 & -1 & 2 & 1 & 0 \\
0 & 0 & 1 & 3 & -1 \\
0 & 0 & 0 & 1 & 3 & -1
\end{pmatrix}$$

$$\Rightarrow \begin{pmatrix}
1 & -1 & 2 & 1 & 0 \\
0 & 1 & 0 & 2 & 1 \\
0 & 0 & 1 & 3 & -1
\end{pmatrix}$$

$$\Rightarrow \begin{pmatrix}
1 & -1 & 2 & 1 & 0 \\
0 & 1 & 0 & 2 & 1 \\
0 & 0 & 1 & 3 & -1
\end{pmatrix}$$

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

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

$$\Rightarrow \begin{pmatrix}
1 & 0 & 0 & 0 & 3 \\
0 & 1 & 0 & 0 & 1 \\
0 & 0 & 0 & 1 & 0
\end{pmatrix}$$

$$\Rightarrow \begin{pmatrix}
1 & 0 & 0 & 0 & 3 \\
0 & 1 & 0 & 0 & 1 \\
0 & 0 & 0 & 1 & 0
\end{pmatrix}$$

行車本建門に行いてあるとうしゃした体はまてがなーのとう の、か、の。人のは行車本意門の発生すりだけました。 そのため、16、1はの、の2、の2の12発をでは表でない。 162=30、ナロューの3

$$S(1-4)$$

$$\begin{pmatrix} 3 & 1 & 8 & 6 & 3 \\ 1 & 1 & 3 & 2 & 1 \\ 3 & -1 & 2 & 2 & 1 \end{pmatrix} \rightarrow \begin{pmatrix} 1 & 1 & 3 & 2 & 1 \\ 0 & -4 & -7 & -4 & -2 \\ 0 & 4 & -7 & -4 & -2 \end{pmatrix}$$

$$-7 \begin{pmatrix} 1 & 1 & 3 & 2 & 1 \\ 0 & 4 & 7 & 4 & 2 \\ 0 & 0 & 0 & 0 & 0 \end{pmatrix}$$

$$x \begin{pmatrix} x + 3 + 3x + 2y + w = 0 \\ 4y + 7x + 4y + 2w = 0 \end{pmatrix}$$

$$\begin{bmatrix} x \\ y \\ z \\ y \\ w \end{bmatrix} = A \begin{pmatrix} -\frac{7}{4} \\ -\frac{7}{4} \\ 0 \\ 0 \end{pmatrix} + B \begin{pmatrix} -1 \\ -1 \\ 0 \\ 0 \\ 0 \end{pmatrix} + C \begin{pmatrix} -\frac{7}{2} \\ -\frac{1}{2} \\ 0 \\ 0 \\ 0 \end{pmatrix}$$

$$S(1-S)$$

$$\chi = \chi_1 \begin{pmatrix} 1 \\ 2 \end{pmatrix} + \chi_2 \begin{pmatrix} 3 \\ 1 \end{pmatrix} = \begin{pmatrix} 1 \\ 2 \end{pmatrix} \begin{pmatrix} \chi_1 \\ \chi_2 \end{pmatrix} \in \mathbb{R}^4 \in \mathbb{R}^4$$

$$f(\chi) = \chi_1 f(\chi) + \chi_2 f(\chi)$$

$$= \begin{pmatrix} 5 & 5 \\ 3 & 4 \\ -2 & 9 \end{pmatrix} \begin{pmatrix} \chi_1 \\ \chi_2 \end{pmatrix}$$

$$\begin{pmatrix} 5 & 5 \\ 3 & 4 \\ -2 & 9 \end{pmatrix} = \begin{pmatrix} 1 & 3 & 2 \\ 0 & 2 & 1 \\ 1 & 0 & 1 \end{pmatrix} F = \begin{cases} 3 & -11 \\ 4 & -8 \\ -5 & 26 \end{cases}$$

$$x = x_1 a_1 + x_2 a_2 + x_3 b_0$$
 $f(x) = x_1 f(a_1) + x_2 f(a_2) + x_3 f(a_3)$ 
 $= x_1 (a_1 - a_3) + x_2 (a_1 + a_2) + x_3 (a_2 + a_3)$ 
 $= (x_1 + x_2) a_1 + (x_2 + x_3) a_2 + (-x_1 + x_3) a_3$ 

$$A = \begin{pmatrix} 0 & -0 & 0 \\ 0 & 1 & 0 \\ 0 & 2 & 1 \\ 0 & 1 \end{pmatrix}$$

$$A = \begin{pmatrix} 1 & 1 & 0 \\ 0 & 1 & 1 \\ -1 & 0 & 1 \end{pmatrix}$$

$$\begin{pmatrix}
1 & -4 & 2 & 1 \\
0 & 1 & 2 & -3 \\
1 & -3 & 4 & -2
\end{pmatrix} \rightarrow \begin{pmatrix}
1 & -4 & 2 & 1 \\
0 & 1 & 2 & -3 \\
0 & 1 & 2 & -3
\end{pmatrix}$$

$$\rightarrow \begin{pmatrix}
1 & -4 & 2 & 1 \\
0 & 1 & 2 & -3 \\
0 & 0 & 0 & 0
\end{pmatrix}$$

$$\rightarrow \begin{pmatrix}
1 & 0 & 0 & -11 \\
6 & 1 & 2 & 3 \\
0 & 0 & 0 & 0
\end{pmatrix}$$

$$\begin{pmatrix} x \\ y \\ z \end{pmatrix} = A \begin{pmatrix} -0 \\ -2 \\ 1 \\ 0 \end{pmatrix} + B \begin{pmatrix} 11 \\ 3 \\ 0 \\ 1 \end{pmatrix}$$

 $x \in \mathbb{R}^{q}$   $x = x_{1}e_{1} + x_{2}e_{2} + x_{3}e_{3} + x_{4}e_{q}$   $f(x) = x_{1}f(e_{1}) + x_{2}f(e_{2}) + x_{3}f(e_{3}) + x_{4}f(e_{5})$   $\geq \text{Wallstrang}$ 

$$\begin{pmatrix}
1 & 0 & 0 & -0 & -0 \\
6 & 0 & 2 & 3 \\
0 & \sigma & 0 & 0
\end{pmatrix}$$

何重本支配(=よって各門の[1500倍は老近CLAin. よ、7. 其直付

$$\left( \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}, \begin{pmatrix} -4 \\ 1 \\ -1 \end{pmatrix} \right)$$

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$$S11-9$$

$$\left(\begin{array}{c} \alpha_{3} & q_{5} & -s_{1} & q_{5} \\ s_{1} & q_{5} & o_{1} & q_{5} \end{array}\right) = \overrightarrow{A_{2}} \left(\begin{array}{c} 1 & -1 \\ 1 & 1 \end{array}\right)$$

$$\overrightarrow{A_{2}} = \overrightarrow{A_{2}} \left(\begin{array}{c} 1 & -1 \\ 1 & 1 \end{array}\right)$$

$$= \overrightarrow{A_{2}} \left(\begin{array}{c} 1 & -1 \\ 1 & 1 \end{array}\right) \left(\begin{array}{c} x \\ 3 \end{array}\right)$$

$$= \overrightarrow{A_{2}} \left(\begin{array}{c} 1 & -1 \\ 1 & 1 \end{array}\right) \left(\begin{array}{c} x \\ 3 \end{array}\right)$$

$$= \overrightarrow{A_{2}} \left(\begin{array}{c} 1 & -1 \\ 1 & 1 \end{array}\right) \left(\begin{array}{c} x \\ 3 \end{array}\right)$$

$$= \overrightarrow{A_{2}} \left(\begin{array}{c} x - 3 \\ x + 0 \end{array}\right)$$

$$\therefore \left(\begin{array}{c} x' = \overrightarrow{A_{2}} \left(x - 3\right) \\ 3' = \overrightarrow{A_{2}} \left(x - 3\right) \end{array}\right) \left(\begin{array}{c} x = x' + 3' \\ 3' = 3' - x' \end{array}\right)$$

$$\xrightarrow{A_{2}} \left(\begin{array}{c} x - 3 \\ 3' - 3' \end{array}\right) \left(\begin{array}{c} x'^{2} - 3x' + 3' \\ 3 \end{array}\right) \left(\begin{array}{c} x'^{2} - 2x' 3' + 3' \\ 3 \end{array}\right) = A^{2}$$

$$\xrightarrow{A_{2}} \left(\begin{array}{c} x'^{2} + 2x' 3' + 3' \\ 3 \end{array}\right) \left(\begin{array}{c} x'^{2} - 3x' + 3' \\ 3 \end{array}\right) \left(\begin{array}{c} x'^{2} - 3x' + 3' \\ 3 \end{array}\right) = A^{2}$$

$$\xrightarrow{A_{2}} \left(\begin{array}{c} x'^{2} - 3x' + 3' \\ 3 \end{array}\right) \left(\begin{array}{c} x'^{2} - 3x' + 3' \\ 3 \end{array}\right) \left(\begin{array}{c} x'^{2} - 3x' + 3' \\ 3 \end{array}\right) = A^{2}$$

打好图[以上了1

2- 8--/