$$A = \begin{pmatrix} 0 & -v_0 & -14 \\ 3 & v_1 & -4 \\ 4 & 11 & -v \end{pmatrix}$$

$$PA = \begin{cases} 5 & 23 & -4 \\ 0 & 20 & 14 \end{cases}$$

$$P^{2} = \begin{pmatrix} \frac{4}{7} & -\frac{3}{7} \\ \frac{3}{7} & \frac{4}{7} \end{pmatrix}$$

$$P^{2} = \begin{pmatrix} 1 & 0 & 0 \\ 0 & \frac{4}{7} & -\frac{3}{7} \\ 0 & \frac{1}{7} & \frac{4}{7} \end{pmatrix}$$

$$p_{2}p_{1}A = \begin{pmatrix} 1 & 0 & 0 \\ 0 & f & 1 \\ 0 & f & f \end{pmatrix} \begin{pmatrix} 5 & 2 & 3 \\ 0 & 2 & 14 \\ 0 & 3 & 4 \end{pmatrix}$$

$$P = |2p| = \begin{pmatrix} 1 & 0 & 0 \\ 0 & f & -\frac{1}{f} \\ 0 & f & f \end{pmatrix} \begin{pmatrix} 0 & \frac{3}{f} & \frac{f}{f} \\ -1 & 0 & 0 \\ 0 & -\frac{2}{f} & \frac{3}{f} \end{pmatrix} = \begin{pmatrix} 0 & \frac{1}{f} & \frac{4}{f} \\ -\frac{4}{f} & \frac{12}{f} & -\frac{14}{f} \\ -\frac{3}{f} & -\frac{14}{f} & \frac{12}{f} \end{pmatrix}$$

$$T = \begin{pmatrix} 5 & 23 & -14 \\ 0 & 25 & 10 \\ 0 & 0 & 10 \end{pmatrix}$$

$$k_1 = I - 2 \frac{nn!}{n!n!} \qquad n_1 = A_{\times 1} - ||A_{\times}||e_1 = (-\lambda^{-1} - \lambda^{-1})^T$$

$$R_1 = \overline{1 - \frac{1}{6}(-2 - 2 - 2)}(-2 - 2 - 2) = \frac{1 - 2 - 2}{3(-2 - 2)}$$

$$RA = \frac{1}{3} \begin{pmatrix} 1 & -1 & 2 \\ -1 & 1 & 2 \\ 2 & 2 & 1 \end{pmatrix} \begin{pmatrix} 1 & 19 & -34 \\ -2 & -5 & 20 \\ 2 & 8 & 37 \end{pmatrix}$$

$$= \begin{pmatrix} 3 & 15 & 0 \\ 0 & -9 & 54 \\ 0 & 12 & 3 \end{pmatrix}$$

$$A_{2} = \begin{pmatrix} -9 & 54 \\ 12 & 3 \end{pmatrix}$$

$$R_{2} = I - 2 \frac{uv_{1}^{*}}{u^{*}u_{2}}$$
 $u_{1} = A_{1} + ||A_{1}|| e_{1} = (6 12)^{T}$

$$\hat{R}_{2} = I - \frac{1}{90} (6 12)^{T} (6 12) = \frac{1}{5} (3 - 4) (-4 - 3)$$

$$\hat{R}_{2} A_{L} = F (3 - 4) (9 54) = (-15 30) \text{ Reg. Ski2}$$

$$(-4 - 3) (12 3) (0 - 45) \text{ Min 2. For}$$

$$\begin{array}{c|cccc} R_{2} & z & 1 & 0 & 0 \\ \hline & 0 & -\frac{3}{F} & \frac{4}{F} \\ & & 4 & \frac{3}{F} \\ & & & 7 \end{array}$$

$$R_{2}R_{1}A = \begin{pmatrix} 3 & 15 & 0 \\ 0 & 75 - 30 \\ 0 & 0 & 45 \end{pmatrix}$$

$$0 = p^{T} = \begin{pmatrix} \frac{1}{5} & \frac{14}{15} & \frac{1}{15} \\ -\frac{2}{5} & \frac{1}{5} & \frac{2}{5} \\ \frac{2}{5} & -\frac{2}{15} & \frac{11}{15} \end{pmatrix} \qquad \qquad \begin{pmatrix} 2 - 15 & 30 \\ 0 & -15 & 30 \\ 0 & 0 & -45 \end{pmatrix}$$

3.
$$B_{2} = \left\{ \begin{pmatrix} 1 \\ 1 \end{pmatrix} \begin{pmatrix} 2 \\ 2 \end{pmatrix} \right\}$$

$$\left\{ \begin{pmatrix} 1 \\ 2 \\ 3 \end{pmatrix} \right\}$$

$$|\text{Nank}\left(\begin{array}{c} 1 & 1 \\ 1 & 2 & 2 \\ 1 & 2 & 3 \end{array}\right) = 3$$

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

$$Q = \frac{1}{2} - p = \begin{pmatrix} 0 & -1 & 1 \\ 0 & -1 & 2 \\ 0 & -3 & 3 \end{pmatrix}$$

$$= B + C$$

$$B^{7} = \pm (A^{7} + A) = B - C^{7} = -\pm (A^{7} - A) = C$$

: 16意用ERMOUNTAPTATETATOR对的探查了	
: Rn+n = S+K. D SAK=)	
1. Rant = SOK	