

$$A = \begin{pmatrix} 1 \\ -1 \\ 2 \end{pmatrix} \begin{pmatrix} 2 & 1 & 1 \\ -2 & -1 & -1 \\ 4 & 2 & 2 \end{pmatrix}$$

$$A = \begin{cases} 2 \\ 4 \end{cases}$$

$$A = \begin{cases} 2 \\ 4 \end{cases}$$

$$A = \begin{cases} 2 \\ 4 \end{cases}$$

$$A^{2} = 2 \begin{cases} 3 \\ 4 \end{cases}$$

$$A^{3} = 3$$

$$A^{4} = 3 \begin{cases} 3 \\ 4 \end{cases}$$

$$A^{5} = 3$$

$$A^{5} = 3$$

$$A^{5} = 3$$

$$A^{-1} = 2^{-1}A$$

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

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

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

A= (02) (A+36) (A'-96)

AA\* = A

 $= 2^{3} \left[ (A^{*})^{-1} \right] = 2^{3} \sqrt{|A||A^{-1}|}$ 

( + A) - (= 12A - 1 = 8 TAT = 2-



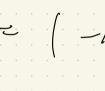


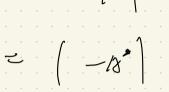
 $\left(\left(\frac{1}{3}A^{*}\right)^{-1}\right)^{2}$ 

$$|A^*| = 8$$

$$|A^*| = |A|$$

$$|A$$





TCB7 21

real + real =3

$$A = \begin{pmatrix} 1 & 3 & 3 \\ -1 & 3 & 2 \\ 2 & 0 & 4 \\ 1 & 3 & 4 & 2 \end{pmatrix} \longrightarrow \begin{pmatrix} 0 & 6 & 5 \\ 0 & -6 & 4 & -6 \\ 0 & 6 & 4 & 4 \end{pmatrix}$$

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

$$\begin{pmatrix} 1 & 3 & 3 & 4 & 4 \\ 4 & 3 & 3 & 4 & 4 \end{pmatrix}$$

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

$$A^{-1} = \frac{A^{\dagger}}{(A)!}$$

$$A^{\dagger} = \frac{1}{6} \begin{pmatrix} 4 & -4 & -2 \\ -1 & 5 & 1 \end{pmatrix}$$

$$A^{-1} = \frac{1}{5} \begin{pmatrix} 4 & -4 & -2 \\ -2 & 5 & 1 \\ -16 & 2 & -1 \end{pmatrix}$$

10 A1= ( 2 1) A

A= (A1 Au)

$$A^{-1} = \frac{1}{5} \begin{pmatrix} 4 & -4 & -2 \\ -2 & 5 & 1 \\ -4 & 2 & -1 \end{pmatrix}$$

Ai

$$\begin{pmatrix}
5 & 2 & | & & | & \\
2 & 1 & | & & |
\end{pmatrix} \rightarrow \begin{pmatrix}
1 & \frac{2}{5} & \frac{1}{5} & \\
2 & 1 & | & & |
\end{pmatrix} \rightarrow \begin{pmatrix}
1 & \frac{2}{5} & \frac{1}{5} & \\
0 & \frac{1}{5} & \frac{1}{5} & \\
\end{pmatrix}$$

$$\begin{pmatrix}
1 & \frac{2}{5} & \frac{1}{5} & \\
0 & \frac{1}{5} & \frac{1}{5} & \\
\end{pmatrix} \rightarrow \begin{pmatrix}
1 & 0 & | & | & -\nu \\
0 & 1 & | & -\nu \\
\end{pmatrix}$$

$$A^{-1} = \begin{pmatrix}
\frac{2}{5} & \frac{1}{3} \\
\frac{1}{3} & \frac{1}{2}
\end{pmatrix}$$

$$\Delta \hat{\alpha}^{*} = 1\Delta$$

$$AA^* = IAI$$

$$AA^{*} - IA$$

$$(A^*)^{-1} = \frac{1}{A}A$$

$$A = \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}$$

$$A = \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}$$

$$A = \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}$$

$$A = \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}$$

$$A = \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}$$

$$A = \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}$$

$$A = \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}$$

$$A = \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}$$

$$A = \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}$$

$$A = \begin{pmatrix} 1 \\ 2 \\ 1 \end{pmatrix}$$

$$A = \begin{pmatrix} 1 \\ 2 \\ 2 \end{pmatrix}$$

$$A = \begin{pmatrix} 1 \\ 2 \\ 1 \end{pmatrix}$$

$$A = \begin{pmatrix} 1 \\ 2 \\ 2 \end{pmatrix}$$

$$A = \begin{pmatrix} 1 \\ 2 \\ 2 \end{pmatrix}$$

$$A = \begin{pmatrix} 1 \\ 2 \\ 1 \end{pmatrix}$$

$$\theta = \frac{1}{2} - \alpha \alpha^{7} + \frac{1}{\alpha} \alpha \alpha^{7} - \frac{1}{\alpha} \alpha \alpha^{7} \alpha \alpha^{7}$$

$$-\alpha^{7} + \frac{1}{\alpha} \alpha \alpha^{7} - \alpha \alpha \alpha^{7} = 0$$

$$-\alpha^{7} + \frac{1}{\alpha} \alpha \alpha^{7} - \alpha \alpha \alpha^{7} = 0$$

$$-\alpha - 1 + \frac{1}{\alpha} = 0$$

$$AB20$$
  $r(4) + r(b) \le 3$ 

V(12)=7/

