```
2024.3.11
                            2. (a) AXB第三列
1. BA = 3 [5x5]
                              (b) A3-17×B
   AB = 5 [343]
                              (c) A 三行x B五列
  ABD =15 [3x1]
                              (d) 60-4,9 x0
  DC不允许
                                 CD第一行X王第一到
 AB+GTRi7
3. ABTAC = [0 7]+ [3] = [38] 5. AXA = [0] A= [0]
                               A^2 = \begin{bmatrix} 2 & 2 \\ 0 & 0 \end{bmatrix} \quad A^3 = \begin{bmatrix} 2 & 2 \\ 2 & 1 \end{bmatrix}
A(B+c) = 38 [387]
                            同程 A5=[2525]
4 BC = [00], A(BC) = [00]
                                An = [ nb7 A" = [ 2 2 ]
  AB = [07] (AB) c = [00]
      (AB) C = A(BC)
6.(A+B) = [22] (A+B) = [104] 7. AF = [ab] [01] = [a a+b]
                             E(AF) = [ 1] [ a atb] [ a atb
 A= [00] B= [30]
 AB = [ 7 0 ] A+B+LAB = [ 3 0] (b) (EA) F = E (AF)
                               或法组合
 BA = [3 6]
                           10. FA = [ atc, b+d]
 A+AB+BA+B2- [10 4]-(A+B)2
                            E (FA) = [atc b+d b+2d
11.到同学计算时在台侧。
                             E(FA) ≠ F(EA) 不可定致委然
  49 后是而在左线
   (EA) F = E(AF) No the FO AC=[8 &]=CA=[4 d]
ま以明言·
                          B=[00] C=[00]
13. AB = [ a o] = BA = [ a b]
                            AAB=BA, AC=CA =A=KI
    6:0=C
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$$(b) \ 7.9t, \ A(xxb), B(bxa)$$

$$(c) \ x \frac{1}{3}$$

$$(d) 7.8b = 0$$

$$(7.3) \begin{bmatrix} 2 & -2 \\ 3 & 2 \end{bmatrix} \begin{bmatrix} 3 & -2 \\ 3 & 2 \end{bmatrix} \begin{bmatrix} 3 & -2 \\ 3 & 2 \end{bmatrix} \begin{bmatrix} 3 & -2 \\ 3 & 2 \end{bmatrix} \begin{bmatrix} 3 & -2 \\ 3 & 2 \end{bmatrix} \begin{bmatrix} 3 & -2 \\ 3 & 2 \end{bmatrix} \begin{bmatrix} 3 & -2 \\ 3 & 2 \end{bmatrix} \begin{bmatrix} 3 & -2 \\ 3 & 2 \end{bmatrix} \begin{bmatrix} 4x + \frac{1}{2}x +$$

$$\begin{array}{lll}
27. & \text{(1)} & \text{(1)} & \text{(2)} \\
& \text{(2)} \times \text{(3)} & \text{(3)} \\
& \text{(3)} \times \text{(3)} & \text{(3)} & \text{(3)} \\
& \text{(3)} \times \text{(3)} & \text{(3)} & \text{(3)} \\
& \text{(4)} \times \text{(1)} & \text{(5)} & \text{(5)} & \text{(5)} \\
& \text{(5)} \times \text{(5)} & \text{(5)} & \text{(5)} & \text{(5)} \\
& \text{(4)} \times \text{(5)} & \text{(5)} & \text{(5)} & \text{(5)} & \text{(5)} \\
& \text{(5)} \times \text{(5)} & \text{(6)} & \text{(6)} & \text{(6)} \\
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& \text{(6)} \times \text{(6)} & \text{(6)} & \text{(6)} & \text{(6)} & \text{(6)} \\
& \text{(6)}$$

$$A = -\frac{1}{2} \begin{bmatrix} 4 & 0 \end{bmatrix} = \begin{bmatrix} \frac{1}{3} & 0 \end{bmatrix} B^{\frac{1}{3}} = \frac{1}{4} \begin{bmatrix} \frac{1}{4} & 2 \end{bmatrix} = \begin{bmatrix} \frac{1}{2} & \frac{1}{4} \end{bmatrix} C^{\frac{1}{3}} = \begin{bmatrix} \frac{1}{3} & \frac{1}{3} & \frac{1}{3} \end{bmatrix} C^{\frac{1}{3}} = \begin{bmatrix} \frac{1}{3} & \frac{1}{3} & \frac{1}{3} \end{bmatrix} C^{\frac{1}{3}} = \begin{bmatrix} \frac{1}{3} & \frac{1}{3} & \frac{1}{3} & \frac{1}{3} \end{bmatrix} C^{\frac{1}{3}} = \begin{bmatrix} \frac{1}{3} & \frac{1$$

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13. MSABC
11:10人+1320, 0无注至有多
  (b) A=[0] B=[0] A+B=[0] AN-ABC AME=B+
                                                      M--CBAT CMA=B-1

14. B=[1][A]
 12. C=AB AA'=I, CC'=I
        A'C = (A'A)B = B
                  A-CCT BC-
                                                         B=[A] [10] A $ 25 12/19
                           A-1=BC-1
15、当有一列为O财, ATA=I财
         工芸有一30方の、不可以
7. E [100] [010] [010] [010]
 \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & -1 & 1 \end{bmatrix} \begin{bmatrix} 1 & 0 & 0 \\ -1 & 1 & 0 \\ -1 & 0 & 1 \end{bmatrix} \begin{bmatrix} 1 & 0 & 0 \\ -1 & 1 & 0 \\ -1 & 0 & 1 \end{bmatrix} \begin{bmatrix} 1 & 0 & 0 \\ -1 & 1 & 0 \\ -1 & 0 & 1 \end{bmatrix} \begin{bmatrix} 1 & 0 & 0 \\ -1 & 1 & 0 \\ 0 & -1 & 1 \end{bmatrix} 
18.B=(A2) AB=I A(A.B)=I
         A-1=AB
22. \begin{bmatrix} 1 & 3 & 1 & 0 \\ 2 & 7 & 0 & 1 \end{bmatrix} = \begin{bmatrix} 13 & 10 \\ 0 & 1 & 2 & 1 \end{bmatrix} = \begin{bmatrix} 1 & 0 & 7 & 3 \\ 0 & 0 & 1 & 2 & 1 \end{bmatrix} = \begin{bmatrix} 1 & A & 1 \\ 0 & 0 & 1 & 2 & 1 \end{bmatrix}
      [390] = [0-3-3] = [10-3 = [10-3] = [10-3] = [10-3] = [10-3]

\begin{bmatrix}
4 \cdot \begin{bmatrix} 1 & 0 & 1 & 0 & 0 \\ 0 & 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 & 0 \end{bmatrix} = \begin{bmatrix}
1 & 0 & 1 & 0 & 0 \\ 0 & 1 & 0 & 1 & -c \\ 0 & 0 & 1 & 0 & 0 \end{bmatrix} = \begin{bmatrix}
-1 & 0 & 1 & 0 & -a \\ 0 & 1 & 0 & 1 & -c \\ 0 & 0 & 1 & 0 & 0 \end{bmatrix}
```

26.
$$E_{2} \cdot A = \begin{bmatrix} 1 & 0 \\ -2 & 1 \end{bmatrix} \begin{bmatrix} 1 & 2 \\ 2 & 6 \end{bmatrix} = \begin{bmatrix} 0 & 2 \\ 0 & 2 \end{bmatrix}$$
 $E_{12} E_{21} A = \begin{bmatrix} 0 & 7 \end{bmatrix} \begin{bmatrix} 0 & 2 \\ 0 & 7 \end{bmatrix} = \begin{bmatrix} 0 & 2 \\ 0 & 2 \end{bmatrix}$
 $E_{12} E_{21} A = I$
 $E_{12} E_{21} E_{21} A = I$
 $E_{12} E_{21} E_{21} A = I$
 $E_{12} E_{21} E_{21} E_{21} = I$
 $E_{12} E_{21} E_{21} = I$
 $E_{13} E_{21} E_{21} = I$
 $E_{13} E_{21} E_{21} E_{21} = I$
 $E_{13} E_$