```
3.4
1. C, V, + C2V2+ C3V3=0, C, = C2=C2=0 2, V, V2, V, V3, V1 V4, V1 V5. V. V6
                                              V1. V2. V2
                                              有い、いいりきレニの 3
C, V, + C2 V2 + C3 V3 + C4 V6 = 0 G=1, C2=1
C3=4. C4=7. 解不量-
                                            3. 0=0 [0 0 0] 有[3]不为中主
                                              d=0 [00 e ] [0]-[0]-[0]T
   (b) (1,-3,2)+(-3,2,1)+(2,1,-3)=0 f=0\left[ \begin{smallmatrix} a & b & c \\ o & d & e \\ 0 & & e \end{smallmatrix} \right], \left[ \begin{smallmatrix} b \\ a \\ 0 & & e \end{smallmatrix} \right], \left[ \begin{smallmatrix} b \\ a \\ 0 & & e \end{smallmatrix} \right]
5.(a) 89,
               1. 7. 8 4. a, d, f to [ a d e ] [ y] = [:]
0. (2,0,0,0) (2,0,0,0) (2,0,0,0) \begin{bmatrix} a & b & c \\ o & d & e \\ 0 & 0 & f \end{bmatrix} V_{X} = 0 \quad \chi_{>0}, y_{>0}, y_{>0}
0. (3,6,0,0) (4,7,0,0) (3,6,0,0) \begin{bmatrix} a & b & c \\ o & d & e \\ o & 0 & f \end{bmatrix} V_{X} = 0 \quad \chi_{>0}, y_{>0}, y_{>0}
    (1.0,9.0) (1,0,9,0) (4,7,0.0) r=m=n=3,解值一放义=0成堂
A: (3.6.0.6) (3,6,0,6) (3,6.0.6) 7. W. W. W. independent
    (4,7,0,8) (1,0,9,2) (4,7,0.8)
                                              V, + V2 +V3 = 0 dependent
 8. C.N.+CN,+C3V3 = (Cx+C2)W,+(C,+C3)M. A=[0] 0-1 台
+(Cx+C3)W2=0
+(C1+C2)W3=0
C1+C1=C2+C3=C1+C3=0 C1=C2=C3=0
                                             11.(a) $ (b) $ (a) R3 (d) R3
10. [12-3-1] [0,0,1,-3] 12.Ax=b, ATx=C
    [1,0,0,1],[0,1,0,2],解不明一不对
                                              17. (1,0); (0,1); (1,0),(0,1)
13.(a) 2 (b) 2 (c) 2 (d) 2
                                                 (1,0,1,0,1) (1,0,1,0,1)
   A.U的写宝间一样
                                                 (0,1,0,1,0) (1,1,1,1)
15·11、墓向量.》,可逐
                                               16. (a) (1,1,1,1) (b) (1,1,1,1) (c) (1,1,1,0) 20. (1,2,3) -> (2,1,0), (-3,0,1)
                     (c,c,-c,e) (1,10,-1)
        (0,0,0,0)
                                               23A(101) (313) (2,12); (1,3,4) (0,11) (132)
                                                  V: (100) (310) (210); (132) (011) (0,00)
(d) (0,0,0,0) (0,1,1,0) (0,0,0,0)
                                               季主河、11, 7,1)新生间(1.3,1),10小儿不多
```

```
25. C=0, d=2 ; C=1, d;0, C=0, d=1
(岁 [十] [1] [23] (1,0,0)
29(0) 尺3(6)纬(0)面
30. [1-1-1] (4,0), (1,1)
36. a+c+d=0 (a,b,a-d,d) =a(1,0,1,0) +b(0,1,0,0)+d(0,0,1,1)
  atb=0 c-2d (a,-a,2d,d) = 2(1,+,0,0)+d(0,0,2,1) 13/12
37.3 [det][o]=[ode]=[oo][det]=[det]
d=0, e=a, f=b g=0, d=h,e=i g=h=0
39. RA=4 5x4 [A6] 5x5可疑, Ax=6, b-主任到芜间内, 元解
 [Ab] 夺角时,[[[[]]] 不建筑铁, b-建在A的到主间里,有解
                 fer - million [20010]
```