```
18:95=57
  对有处 S+4+3+2+1=15
                                                             PV=(-5,2,3) V=(2,3,-5)
  (b)(LOLT) = LOLT = LOLT D'=D 1005 0 = - 2 0 = 120 P3=I
   (9 15-5=10
                                                      33. A = ES
19. (a) (ATSA) T = ATSA
     n \times n. It \lambda \neq 1 \begin{bmatrix} 1 & 2 \\ 4 & 9 \end{bmatrix} = \begin{bmatrix} 1 & 2 \\ 2 & 1 \end{bmatrix} \begin{bmatrix} 2 \\ 2 & 1 \end{bmatrix}

(b) (A^TA)_{ii} = \begin{bmatrix} 1 & 2 \\ 2 & 1 \end{bmatrix} \begin{bmatrix} 2/4 & 2 \\ 2/4 & 2 \end{bmatrix}
                                                    134. A=LS, L为互角的凝解
       A : 15 xA; 31
                                                                BA=LUTOU=LCUT) S=LS
        ·(Ai列) >0
                                                                                           ·L(UT) 1-L 三周经历
 \begin{bmatrix} 2 & 4 & 8 \\ 4 & 3 & 9 \\ 8 & 9 & 0 \end{bmatrix} = \begin{bmatrix} 2 & 4 & 8 \\ 0 & 5 & 7 \\ 0 & 7 & 32 \end{bmatrix} \begin{bmatrix} -5 & -7 \\ -7 & 31 \end{bmatrix} (U^{T} D U)^{T} = U^{T} \overline{D} (U^{T}) 
    [bde] = [odbebo] [e-cbf-c] = UTDV DT=D

[cef] = [oe-cbf-c] [e-cbf-c] -S = UTDV : UTDUSTS
  24. PA = LU
      \begin{bmatrix} 1 \\ 1 \end{bmatrix} \begin{bmatrix} 0 & 1 & 2 \\ 0 & 3 & 8 \\ 2 & 1 & 1 \end{bmatrix} = \begin{bmatrix} 2 & 1 & 1 \\ 0 & 3 & 8 \\ 0 & 1 & 2 \end{bmatrix} = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 3 & 1 \end{bmatrix} \begin{bmatrix} 2 & 1 & 1 \\ 0 & 3 & 8 \\ 0 & 3 & 2 \end{bmatrix}
 A = L_1 P_1 V_1 = \begin{bmatrix} 0 & 1 & 2 \\ 0 & 3 & 8 \\ 2 & 1 & 1 \end{bmatrix} \begin{bmatrix} 1 & 1 & 2 & 1 \\ 0 & 1 & 2 \\ 0 & 0 & 2 \end{bmatrix}
 25
 28.8 [ a b ] a 会转的,对自我记时和
 29. (a) ATy : [ ] [ ] [ yos ] ; [ yos ] ; [ yos ] ; [ yos ] ;
```

