(科目: 数数 学 作 业 纸

编号:

班级:

姓名:

1、设度为1的结点数为n,则总统数为2n;总度数为22n;-2. : Zini=221ni-2

 $n_{i} + \sum_{i=1}^{k} i \hat{n}_{i} = 2n_{i} + \sum_{i=1}^{k} n_{i} - 2 \qquad n_{i} = 2\sum_{i=1}^{k} (i-2)n_{i}$

[-1001110000 000-1001110 0-10000-1-101 00-10-1-100-1-1 e, ez ez e4 e5 e6 e5 e8 e9 e10

B₁ B₁ = [4 -1 0 -2] det (B₁ B₁ T) = 4x48 • -(+1)x+31)-(2/x(-30))
1 0 -2 4 -1
1 -2 -1 -1 5

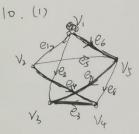
(b) $\pm \frac{1}{4}(V_1, V_2)$. $B_1 = \begin{bmatrix} -1 & 0 & 1 & 1 & 1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 & 0 & 1 & 1 & 0 & 1 \\ 0 & 0 & 0 & -1 & -1 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & -1 & -1 & 0 & 0 \\ 0 & 0 & 0 & -1 & -1 & 0 & 0 \\ 0 & 0 & 0 & -1 & -1 & 0 & 0 \\ 0 & 0 & 0 & -1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & -1 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 & -1 & 0 \\ 0 & 0 & 0 & 0$

det (B, B,) = 2x(-24) + 3x36 = 60.

det (B, B,) = det (B $= \det \begin{bmatrix} n1 & -1 \\ 0 & ml - \frac{1}{n} \end{bmatrix} = \det \begin{bmatrix} n1 & 0 \\ 0 & ml - \frac{1}{n} \end{bmatrix} = n^{m-1} \det \begin{bmatrix} m - \frac{m}{n} \\ -\frac{m}{n} \end{bmatrix} = n^{m-1} \det \begin{bmatrix} m - \frac{m}{n} \\ -\frac{m}{n} \end{bmatrix}$

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C1: e1, e6, e7, e3, e4 (E) \$7, 660) Cz: ez, ez, e6 C3: es, e7, E3, E4 C4: 08, 03, E7

(c) B₁ = \[\begin{array}{c} -1 & 0 & 0 & 1 & 0 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 1 & 0 & 0 & -1 \\ 0 & 0 & -1 & 0 & 0 & 1 & 1 & 1 \\ 0 & 0 & -1 & 1 & 0 & 0 & 1 & 1 & 1 \\ 0 & 0 & -1 & -1 & 0 & 0 & 1 & 1 & 1 \\ 0 & 0 & -1 & 0 & 0 & 1 & 1 & 1 \\ 0 & 0 & -1 & 0 & 0 & 1 & 1 & 1 \\ 0 & 0 & -1 & 0 & 0 & 1 & 1 & 1 \\ 0 & 0 & -1 & 0 & 0 & 1 & 1 & 1 \\ 0 & 0 & -1 & 0 & 0 & 1 & 1 & 1 \\ 0 & 0 & -1 & 0 & 0 & 1 & 1 & 1 \\ 0 & 0 & -1 & 0 & 0 & 1 & 1 & 1 \\ 0 & 0 & -1 & 0 & 0 & 1 & 1 & 1 \\ 0 & 0 & -1 & 0 & 0 & 1 & 1 & 1 \\ 0 & 0 & 0 & -1 & 0 & 0 & 1 & 1 & 1 \\ 0 & 0 & 0 & -1 & 0 & 0 & 1 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 \\

数目为24-15-9