Witams Za (Zynemy 0 17:00

poltekojmy jostlete 2 min...

Za 7 tyg Kololewium: - NOZW. ULT, NOW, lin -litzonie medlon montions - W ZNOWNILI. - Milzbami zespolonyni

 $(u, v) = u \hat{x} + v \hat{y}$ $(u, v) = u \hat{$ May V) $u, v \in (0, 1]$ jak zmionier sig polatyth mocion ZxZ A = (u, u) wzhozówko: mento zwiezek -z det(A)

$$2 < 2$$

$$olet((ab)) = a \cdot d - c \cdot b$$

 $\frac{1}{1} = \sum_{\alpha_1 \alpha_2 \dots \alpha_m} A_{\alpha_1 1} A_{\alpha_2 2 \dots \alpha_m} A_{\alpha_m n}$ $\frac{1}{1} = \sum_{\alpha_1 \alpha_2 \dots \alpha_m} A_{\alpha_1 1} A_{\alpha_2 2 \dots \alpha_m} A_{\alpha_m n}$ $\frac{1}{1} = \sum_{\alpha_1 \alpha_2 \dots \alpha_m} A_{\alpha_1 1} A_{\alpha_2 2 \dots \alpha_m} A_{\alpha_m n}$ $\frac{1}{1} = \sum_{\alpha_1 \alpha_2 \dots \alpha_m} A_{\alpha_1 1} A_{\alpha_2 2 \dots \alpha_m} A_{\alpha_m n}$ $\frac{1}{1} = \sum_{\alpha_1 \alpha_2 \dots \alpha_m} A_{\alpha_1 1} A_{\alpha_2 2 \dots \alpha_m} A_{\alpha_m n}$ $\frac{1}{1} = \sum_{\alpha_1 \alpha_2 \dots \alpha_m} A_{\alpha_1 1} A_{\alpha_2 2 \dots \alpha_m} A_{\alpha_m n}$ $\frac{1}{1} = \sum_{\alpha_1 \alpha_2 \dots \alpha_m} A_{\alpha_1 1} A_{\alpha_2 2 \dots \alpha_m} A_{\alpha_n 1}$ $\frac{1}{1} = \sum_{\alpha_1 \alpha_2 \dots \alpha_m} A_{\alpha_1 1} A_{\alpha_2 2 \dots \alpha_m} A_{\alpha_n 1}$ $\frac{1}{1} = \sum_{\alpha_1 \alpha_2 \dots \alpha_m} A_{\alpha_1 1} A_{\alpha_2 2 \dots \alpha_m} A_{\alpha_n 1}$ $\frac{1}{1} = \sum_{\alpha_1 \alpha_2 \dots \alpha_m} A_{\alpha_1 1} A_{\alpha_2 2 \dots \alpha_m} A_{\alpha_n 1}$ $\frac{1}{1} = \sum_{\alpha_1 \alpha_2 \dots \alpha_m} A_{\alpha_1 1} A_{\alpha_2 2 \dots \alpha_m} A_{\alpha_n 1}$ $\frac{1}{1} = \sum_{\alpha_1 \alpha_2 \dots \alpha_m} A_{\alpha_1 1} A_{\alpha_2 2 \dots \alpha_m} A_{\alpha_n 1}$ $\frac{1}{1} = \sum_{\alpha_1 \alpha_2 \dots \alpha_m} A_{\alpha_1 1} A_{\alpha_2 2 \dots \alpha_m} A_{\alpha_1 1}$ $\frac{1}{1} = \sum_{\alpha_1 \alpha_2 \dots \alpha_m} A_{\alpha_1 1} A_{\alpha_2 2 \dots \alpha_m} A_{\alpha_1 1}$ $\frac{1}{1} = \sum_{\alpha_1 \alpha_2 \dots \alpha_m} A_{\alpha_1 1} A_{\alpha_2 2 \dots \alpha_m} A_{\alpha_2 2 \dots \alpha_m}$ $\frac{1}{1} = \sum_{\alpha_1 \alpha_2 \dots \alpha_m} A_{\alpha_1 1} A_{\alpha_2 2 \dots \alpha_m} A_{\alpha_2 2 \dots \alpha_m}$ $\frac{1}{1} = \sum_{\alpha_1 \alpha_2 \dots \alpha_m} A_{\alpha_2 2 \dots \alpha_m} A_{\alpha_2 2 \dots \alpha_m}$ $\frac{1}{1} = \sum_{\alpha_1 \alpha_2 \dots \alpha_m} A_{\alpha_2 2 \dots \alpha_m}$ malmxm I (d1, d7)...) dn): Liczba Prestawień di, di Koniecznyh do Zamiony $d_1, d_2, \dots, d_n \longrightarrow 1, 7, \dots, m$

 $\left(\longrightarrow 1, 7, 3 \right)$ a,, 1, 2, 2, 1 $3,71 \rightarrow 3,1,7 \rightarrow 1,3,7 \rightarrow 1,7,3$ 3 Zamiano $T(3,7,1) \ge 3$ Zuah permutacji (-n) = -1

 $\det(A) = \sum_{i=1}^{m} A_{ij} (-1)^{i+j} \text{ ole } t(A_{Lij})$ $\sum_{macion \ m \times m} Powstage A$

poustage A

prot aghreslonie

i - wierste

1 - holumy