

Zad. 5* ω -tenson otkranyay

σ -permutatsiya

$$\sigma = \langle a_{11}, a_{12} \rangle \langle a_{21}, a_{22} \rangle \dots \langle a_{n1}, a_{n2} \rangle \quad - \text{ilcayn transpozitsiya}$$

$$\overset{\text{Neschy}}{\sigma^{-1}} = \langle a_{21}, a_{22} \rangle \dots \langle a_{n1}, a_{n2} \rangle \quad - \text{||} \quad \text{ber sedis}$$

$$\begin{aligned} \omega(v_{\sigma(1)}, \dots, v_{\sigma(n)}) &= \cancel{\omega(v_1, \dots, v_n)} - \omega(v_{\sigma^{-1}(1)}, \dots, v_{\sigma^{-1}(n)}) = \\ &= (-1^n) \cdot \omega(v_1, \dots, v_n) = (\text{sign } \sigma) \omega(v_1, \dots, v_n) \end{aligned}$$

Neschy $\omega(v_1, v_1, v_3, \dots, v_n) = q, q \in \mathbb{R}$

ω -otkranyay neschy

$$\omega(v_1, v_1, \dots, v_n) = -\omega(v_1, v_1, \dots, v_n)$$

$$q = -q \Rightarrow q = \omega(v_1, \dots, v_n) = 0$$