Problem 25

(1)
$$T(\beta)^{\circ n} [\sigma(w, 0, \cdots, 0)] = T(\beta)^{\circ n} [w_{\sigma_{i}}, \otimes w_{\sigma_{i}}, \otimes \cdots, \otimes w_{\sigma_{i}})] = [T(\beta)^{\circ n} [w_{\sigma_{i}}, \otimes w_{\sigma_{i}}, \otimes \cdots, \otimes w_{\sigma_{i}}] = [T(\beta)^{\circ n} [w_{\sigma_{i}}, \otimes$$

(2) (13>(12) = (123)

$$C = (e + (13))(e - (12)) = e + (13) - (12) - (12)$$

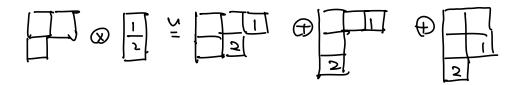
 $CV^{\otimes 3} = \operatorname{Span} \{ V_i \otimes V_j \otimes V_k + \sigma_k \otimes V_j \otimes V_i$ $- V_j \otimes V_i \otimes V_k - V_j \otimes V_k \otimes \sigma_i \}$ $(\alpha_2)_{ijk} = \alpha_{ijk} + \alpha_{kj} - \alpha_{jik} - \alpha_{kij}$

$$= \sum_{(\alpha_2)_{ijk}} (\alpha_2)_{jk} + (\alpha_2)_{kj} = 0$$

$$(\alpha_2)_{ijk} = -(\alpha_2)_{jk}$$

Problem 26

for Suisi at most 3 10 ws.



not allowed examples:



dims: 8 x 3 = 15 + 6 + 3