dim 
$$V = n$$

$$V_s = V_0 ... @V \otimes V^* @ ... \otimes V^*$$

$$= \angle (V^*, V^*, V^*, V^*, V^*) F$$

$$dim V_s = n^{r+s} f$$

$$\vec{e}_i = \vec{a}_i \cdot \vec{e}_j'$$

A of  $\vec{e}_i \cdot s \Rightarrow \vec{e}_i \cdot s$  change also want  $\vec{e}_i \cdot *i(\vec{e}_j') = S_j'$ 

HOW ARE 
$$e^{*i} = b^{*}(e^{i})^{*j}$$

(3) Write action as 
$$\langle \vec{e}^*, \vec{e}_j \rangle$$

$$= \langle \vec{e}^{*i}, \vec{e}_{j} \rangle = \langle b_{k}^{i} (\vec{e}^{\prime})^{*k}, \alpha_{j}^{i} \vec{e}_{j} \rangle = b_{k}^{i} \alpha_{j}^{i} \langle \vec{e}^{\prime *k}, \vec{e}_{l}^{i} \rangle$$

$$= b_i a_j^i = (ab)_j^i$$

Related?