1 Tensors and Local Symmetries

1.

2. The derivative of

$$e^{a\dagger} \cdot e_c = \delta^a_c$$

shows

$$e^{a\dagger} \cdot e_{c,i} + e^{a\dagger,i} \cdot e_c \;\; = \;\; 0.$$

That is

$$e^{a\dagger} \cdot e_{c,i} = -e^{a\dagger} \cdot e_c$$

3.