Homework 8

- 1. Show that the fermion content of $\mathbf{5} + \mathbf{\bar{10}}$ representation of SU(5) reproduces a single generation of the Standard Model, under the symmetry breaking $SU(5) \to SU(3) \times SU(2) \times U(1)$.
- 2. Srednicki problem 75.1
- 3. Srednicki problem 76.1
- 4. Srednicki problem 77.1
- 5. Srednicki problem 77.2
- 6. Srednicki problem 89.3