

## 8.324 Problem Set 7

**References** Peskin and Schroeder, chapter 11, Weinberg, chapter 16.

**Problem 1 effective action for a pseudo scalar** Weinberg, problem 16.1.

**Problem 2 One particle irreducible computations** Weinberg, problem 16.2.

**Problem 3 effective action for  $\phi^3$  in six dimensions** Weinberg, problem 16.3.

**Problem 4 symmetries of the effective action** Weinberg, problem 16.4.