

**Homework Set 1**

DUE: FEB 4, 2019 (AT THE BEGINNING OF CLASS)

**To be handed in***Please write your solution to Problem 1 on a single sheet of paper!*

1. Compute the following definite and indefinite integrals:

a)  $\int_0^1 \sqrt{2}t^4 + e^\pi t^2 - 2t \ln 2 + 1 dt$

b)  $\int \sqrt{7}x^5 \sin(x^6) dx$

2. Textbook (5th edition) Section 5.1, Exercises 15-18, 31, 41, 43
3. Textbook (5th edition) Section 5.4, Exercises 9-11, 71, 73
4. Textbook (5th edition) Section 5.5, Exercises 13-16, 49-52