

**Homework Set 7**

DUE: MARCH 18, 2019 (AT THE BEGINNING OF CLASS)

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

1. Compute the first derivative of the following functions:

a)  $f(x) = \ln(x^2 + 3x - 1)$

b)  $\phi(x) = 2xe^{\sqrt{x}-1}$

c)  $s(t) = (t + 1) \cos((t^2 + 1)^4 + e^t)$

3. Textbook (5th edition) Section 3.4, Exercises 51, 55, 63-68, 98