## Homework Set 6

Due: March 11, 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) $f(x)=\frac{\ln (x)}{x^{2}+1}$
b) $A(x)=x^{3} e^{x} \cos (x)$
c) $h(x)=\sqrt{2 x^{3}+3 x^{2}}$
2. Textbook (5th edition) Section 3.3, Exercises 1-6, 39-44, 85, 86, 92
3. Textbook (5th edition) Section 3.4, Exercises 1-6, 11-16, 35-37
