Homework Set 3

DUE: FEB 20, 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 following limits if they exist, or justify in case they do not exist: a) $\lim_{x \to 4_{-}} \frac{9x^2}{x-4}$ b) $\lim_{x \to 1} \frac{x^2 + 2x + 3}{x-1}$ c) $\lim_{x \to +\infty} \frac{x^2 + 2x - 8}{4x-3}$ d) $\lim_{x \to +\infty} \frac{7x^3 + 3x^2 - 9x + 1}{14x^3 - 5x^2 - 7}$

- 3. Textbook (5th edition) Section 2.4, Exercises 1-6, 40-48, 70-72
- 4. Textbook (5th edition) Section 2.5, Exercises 1-4, 13-16
- 5. Textbook (5th edition) Section 4.5, Exercises 1-6, 19-28, 95-96