Homework Set 2

Due: Sep 12, 2018 (at the beginning of class)

To be handed in

Please write your solutions to Problems 1 a) - e) on only 1 sheet of paper.

1. Compute the following limits:

   a) $\displaystyle\lim_{x \to 5} \frac{x^2 - 3x - 10}{x - 5}$

   b) $\displaystyle\lim_{x \to -1} \frac{\sqrt{x + 5} - 2}{x + 1}$

   c) $\displaystyle\lim_{t \to 4} \frac{4 - t}{t - \sqrt{3t + 4}}$

   d) $\displaystyle\lim_{x \to 0} x^4 \cos\left(\frac{1}{x^2}\right)$

   e) $\displaystyle\lim_{x \to 0} \frac{\tan x}{2x}$

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2. Textbook (5th edition) Section 2.3, Exercises 9-12, 29-32, 34-35, 69-72, 77-80