Homework Set 2

Due: Feb 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 following limits:

   a) $\displaystyle\lim_{x \to 7} \frac{x^2 - 8x + 7}{x - 7}$

   b) $\displaystyle\lim_{\theta \to 0} \theta^4 \sin\left(\frac{\theta^3}{\theta^2 + 2}\right)$

   c) $\displaystyle\lim_{x \to -2} \frac{\sqrt{2 - x} - 2}{2x + 4}$

   d) $\displaystyle\lim_{t \to 0} \frac{3 \sin(6t) \cos(7t)}{8t}$

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