

# Math 1431 – Section 17699

Homework 1 (10 points)

**Due Thurs. 1/29 in Recitation**

Name: \_\_\_\_\_ PSID: \_\_\_\_\_

## Instructions:

- Print out this file and complete the problems.
  - If the problem is from the text, the section number and problem number are in parentheses.
  - Use a blue or black pen or a pencil (dark).
  - Write your solutions in the spaces provided. You must show work in order receive credit for a problem.
  - Remember that your homework must be complete, neatly written and stapled.
  - Submit the completed assignment to your Teaching Assistant in lab on the due date.
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1. Find the following limits:

a.  $\lim_{h \rightarrow 0} \frac{(3+h)^2 - 9}{h}$

b.  $\lim_{x \rightarrow 2} \frac{x}{x^2 - 4}$

c.  $\lim_{t \rightarrow -4} \left( \frac{3t}{t+4} + \frac{8}{t+4} \right)$

2. (Section 1.3, Problem 6)

3. (Section 1.3, Problem 12)

4. (Section 1.3, Problem 16)

5. (Section 1.3, Problem 18)

6. (Section 1.3, Problem 20)

7. (Section 1.3, Problem 32)

8. (Section 1.3, Problem 34)

9. (Section 1.3, Problem 40)

10. (Section 1.3, Problem 43)