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Week 4: 02/04/2020

Math 285: Spring 2020 Instructor: Garrett Hartshaw

Instructions:

Please answer the questions below. Show all your work. You may use a TI-84/85 (or equivalent) calculator.

Problem 1. (5 points) Graph the function from 0 to 2π : $f(x) = 2\cos(x)$.

Problem 2. (5 points) The following is a graph of f(x). Determine the following limits, if they exist: $\lim_{x\to 0^+} f(x)$, $\lim_{x\to 0^-} f(x)$, and $\lim_{x\to 0} f(x)$.

Problem 3. (5 points) Find the limit, if it exists: $\lim_{x\to 3} \frac{x^2-9}{x-3}$.

Problem 4. (5 points) Find the limit, if it exists: $\lim_{h\to 0} \frac{\sqrt{x+h}-\sqrt{x}}{h}$.