

Week 8: 03/03/2020 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.

Find the derivative of the following functions.

Problem 1. (5 points) $f(x) = 5e^{2x}$

Problem 2. (5 points) $f(x) = \log_2(3x^2 + 2x + 1)$

Problem 3. (5 points) $f(x) = \tan(x)$

Problem 4. (5 points) Find both the first and second derivatives: $f(x) = 5x^3 + 3x^2 + 2x + 7$