

Written Assignment 1
Due Monday, October 3rd

1. Do # 2, 8, and 14 in section 2.1 (these three are related and should be done together).
2. Do # 6, 12, and 18 in section 2.1 (same as before).
3. In your own words, explain what a derivative is. Also, find two real-world quantities that can be described as a derivative.
4. Problems 4 and 5 from handout 2.1.
5. Find $\lim_{x \rightarrow 0} \frac{\sin(x)}{x}$ using a calculator (make sure your calculator is in radians!). Write a sentence or two describing how you found your result.
6. # 21 - 24 in section 2.2.
7. # 28 in section 2.2.