

MATH 131: ASSIGNMENT 5

Power and Product Rule

Book reference: Sections 2.1, 2.2, 2.3, 2.4

The purpose of this assignment is to gain practice using

Power rule: $\frac{d}{dx} [x^p] = px^{p-1}$

Product rule: $\frac{d}{dx} [f(x)g(x)] = \frac{d}{dx} [f(x)] g(x) + f(x) \frac{d}{dx} [g(x)]$

Please do the following problems from the textbook:

- Section 2.3 problems 1 – 14 and 21 – 24
- Section 2.4 problems 1 – 4, 11, 13.