Class #10: Chain Rule (Math 31)

1. Goals (Section 3.6)
    a. Chain Rule
2. Recall function composition
    a. Given f and g, find f(g(x))
    b. In reverse: Given a function, find f and g so that the function = f(g(x))
        i. Examples: Section 3.6: 220 – 224 (just break up)
3. Chain Rule
    a. Write product rule in newton notation.
    b. Then chain rule in both notations.
    c. Examples: Section 3.5: 228 and following.
    d. Example: Section 3.5: 253
4. Special cases of chain rule:
    a. Combine chain rule and power rule
    b. Derivative of exponential