Topic #8: Differentiation Rules (Math 31)

- 1. Goals (Section 3.3):
 - a. Differentiation rules.
- 2. Graph problems with "where diff", "where ctn", limits, etc
- 3. Differentiation Rules:
 - a. Constant Function rule
 - b. Power rule
 - c. Constant Multiplier
 - d. Sum Rule
 - e. Difference Rule
 - f. Product Rule (and quotient rule)
- 4. Derivatives of special functions:
 - a. Sin (is cos)
 - b. Cos (is -sin)
 - c. Exp (mult by ln a ...)
 - d. Ln (divide by ln a ...)
- 5. Problems
 - a. Polynomials, etc (include product of binomials and negative/fraction exponents)
 - b. Section 3.3 (p. 264): 130, 131, 132.
 - c. Section 3.3 (p. 264): 138, 140, 142.