

REVIEW FOR TEST 2
MATH 170
SPRING 2008

The test material is from Chapter 3: Sections 3.1 - 3.8 from the book. Besides other Precalculus prerequisites you should know:

- The laws of exponents.
- The logarithmic function, its properties, laws and derivative.
- The exponential function, its properties, laws and derivative.
- Trigonometric functions and their derivatives.
- How to find a derivative of a function using its limit definition.
- The basic differentiation rules, the product rule, the quotient rule and the chain rule and how to use them to find derivatives.
- How to find the slope of a tangent line to the graph of a function at $x = a$ using derivatives.
- How to find the equation of a tangent line to the graph of a function at $x = a$ using derivatives.
- How to compute a speed and a acceleration using derivatives.
- Parametric formula for dy/dx and d^2y/dx^2 .
- Implicit differentiation.