

REVIEW FOR FINAL EXAM
MATH 170
SPRING 2008

The test material is from sections 4.5 – 4.8 and 5.1 – 5.6 from the book. Besides other Precalculus prerequisites you should know:

- Differentiation rules and differential of a function.
- How to use derivatives to solve optimization problems.
- The L'Hôpital's rule and how to use to solve limits.
- Newton's method.
- Finite sums and their algebra.
- Limits of finite sums.
- Riemann sums.
- How to estimate the area under the graph of a function using Riemann sums.
- Fundamental Theorem of Calculus.
- Integration rules and formulas: Page 297 table 4.2 (1-9), Page 298 table 4.3 and Page 336 table 5.3.
- Substitution rule: indefinite and definite integral.
- How to find area between two curves.