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REVIEW FOR TEST 2, MATH1690
February 26, 2008

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Sections from Stewart: 3.10, 4.1- 4.5, 4.7, 4.10, 5.1-5.3, 5.5, 6.1, and Induction and Taylor polynomials.

DEFINITIONS and FORMULAS:

4. Extreme points, intervals of monotonicity, concave up, concave down, inflection point, oblique asymptote, indeterminate forms, L'Hospital's rule, antiderivative.

*. Induction, Taylor polynomials, Lagrange form of the remainder.

5. Partition, Riemann sum, upper and lower Riemann sums, integrable function, definite integral, method of substitution. (List of antiderivatives on p. 506)

6. Areas between curves.

THEOREMS:

4. Mean Value theorem, first derivative test, second derivative test, L'Hospital's rule (first and second).

5. Continuous functions are integrable, mean value theorem for integrals, fundamental theorem of calculus (two parts).