

MATH 1501 Homework Assignments for Chapter 3, Fall 2007, WTT

Main Topics.

- two definitions of derivatives
- derivative formulas for sums, differences, products and quotients
- alternative notation for derivatives
- rates of change
- derivatives of compositions — the chain rule
- derivatives of trig functions
- implicit differentiation, application to rational powers

Homework problems from the text. All odd numbered problems have answers in the back of the textbook.

- Section 3.1: 3, 7, 9, 15, 21, 25, 27, 31, 35, 39, 45, 47, 51, 59
- Section 3.2: 3, 7, 13, 23, 33, 37, 51, 57
- Section 3.3: 5, 13, 19, 25, 31, 35, 41, 53
- Section 3.4: 3, 11, 13
- Section 3.5: 1, 5, 15, 19, 23, 29, 31, 33, 35, 41, 61
- Section 3.6: 3, 7, 11, 21, 27, 39, 43, 63
- Section 3.7: 3, 7, 19, 23, 35, 55
- Chapter 3 Review: 7, 13, 17, 25, 27, 39, 41, 45