Study Guide for Exam 1

Test policies

No books, calculators or computers allowed on the exam. One page (one sided) of handwritten notes allowed on the exam.

Sample exam

Here's what you might expect on an exam. Do these exercises from the book (there will be fewer problems on a real exam). No guarantees about exactly how similar are these to the exam questions.

5.2) 53, 59 5.3) 8 5.4) 14 5.5) 6 5.6) 58 6.1) 15 6.2) 17, 56 6.3) 10, 37 11.3) 6, 16 11.4) 14 Supplement 1) Compute $(1 - i)^{10}$ Supplement 2) 1b) and 6a)

Topics covered

5.2-5.4) Fundamental theorem of calculus.

5.5) Integral of rate is the total change.

5.6) Substitution.

- 6.1) Area between curves
- 6.2) Volume of a solid, mean (average) value of a function.
- 6.3) Volumes of solids of revolution.

11.3) Polar coordinates, converting to and from, converting equations.

11.4) Computing areas in polar coordinates.

Supplement 1) Complex numbers

Supplement 2) Complex exponential