

## **Study Guide for Exam 3**

### **Test policies**

No books, calculators, phones, 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. You should also go through your past homeworks and quizzes.

9.6) 15, 41

10.1) 5, 29

10.2) 3, 17

10.3) 7, 17

10.4) 5, 21

12.1) 1, 23, 41

12.2) 3, 25

12.3) 5, 25

12.4) 7, 17

### **Topics covered**

9.6) Double integrals

10.1) Solutions of elementary and separable differential equations

10.2) Linear first-order differential equations

10.3) Euler's method

10.4) Applications of differential equations

12.1) Geometric sequences

12.2) Annuities

12.3) Taylor polynomials at 0

12.4) Infinite series