

MATH281 200610 Midterm Test 1 Study Guide

Edward Doolittle

Wednesday, February 8, 2006

Midterm Test 1 will take place on Wednesday, February 15, 2006, during the regular class hour.

Chapters: 1.1, 1.2, 2.1, 2.2, 2.3, and 2.4. You should be able to classify ordinary differential equations; check conditions for existence of solutions to initial value problems; verify solutions to differential equations, verify solutions to initial value problems; sketch approximate solution curves for first order equations given a direction field; sketch phase portraits for autonomous first order equations; and solve differential equations and initial value problems in which the equation is first order separable, linear, or exact.