# Second Midterm Exam – Math 225

Fall 2013 –

Exercise 1:

Solve the given initial value problem and give the largest interval I over which the solution is defined:

Exercise 2:

Solve the given initial value problem

Exercise 3:

Solve the given initial value problem by finding an appropriate integrating factor

Exercise 4:

Solve the given differential equation by using an appropriate substitution

Exercise 5:

Let

1. Verify that form a fundamental set of solutions of the differential equation

On

b) Form the general solution.