

Math 320 (Smith): Problem Set 1

Due Tuesday, September 13, 2011

Please show all your work and/or justify your answers.

Note: All analytical solutions should be correct, since you can check your answer by plugging into the ODE.

Note 2: After you obtain an analytical solution to an initial value problem, state the region where the solution is defined.

1. EP Section 1.1: 8, 10, 16, 24, 36 (for practice, not to be graded).
2. EP Section 1.2: 9, 10, 18, 32
3. EP Section 1.3: 15, 16, 18, 21, 22, 25, 26