ESO 208A; ESO 218

Computational methods in engineering

Tutorial # 9

October 24, 2013

1. Solve the following boundary value problem.

   $$\frac{d^2 y}{dx^2} + x + y = 0 \qquad \{x \in [0, 1]\}$$

   Boundary values: y(0) = y(1) = 0

   a. Use shooting method with Euler method and step size = 0.25
   b. Use finite difference method with 5 nodes.