Solution Manual for: Numerical Computing with MATLAB by Cleve B. Moler

John L. Weatherwax*

July 25, 2007

Chapter 7 (Ordinary Differential Equations)

Problem 7.1

Defining the vector y as

$$y = \begin{bmatrix} v \\ u \\ \dot{v} \\ \dot{u} \end{bmatrix}$$
(1)

Then we have for its time derivative the following

$$\frac{dy}{dt} = \begin{bmatrix} \dot{v} \\ \dot{u} \\ \bar{v} \\ \bar{u} \end{bmatrix} = \begin{bmatrix} y_3 \\ y_4 \\ -\frac{y_2}{1+t^2} + \cos(r) \\ -\frac{y_3}{1+t^2} - \sin(r) \end{bmatrix}$$
(2)

Where r given in terms of components of y is

$$r = \sqrt{y_4^2 + y_3^2}$$
 (3)

Given the initial conditions in terms of u, v, \hat{u} , and \hat{v} we have

$$y_0 = \begin{bmatrix} 0 \\ 1 \\ 0 \\ 0 \end{bmatrix}$$
(4)

^{*}www@ahum.mit.edu

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