

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

John L. Weatherwax*

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Chapter 7 (Ordinary Differential Equations)

Problem 7.1

Defining the vector y as

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

Then we have for its time derivative the following

$$\frac{dy}{dt} = \begin{bmatrix} \dot{v} \\ \dot{u} \\ \ddot{v} \\ \ddot{u} \end{bmatrix} = \begin{bmatrix} y_3 \\ y_4 \\ -\frac{y_2}{1+r^2} + \cos(r) \\ -\frac{y_1}{1+r^2} - \sin(r) \end{bmatrix} \quad (2)$$

Where r given in terms of components of y is

$$r = \sqrt{y_1^2 + y_2^2} \quad (3)$$

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

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

*wax@alum.mit.edu

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