

HW10 10.10 - Group Work Review

1. Referring to the following approximation of the integral method:

$$y_0 = 1.0, \quad y_1 = 1.2, \quad y_2 = 1.4, \quad y_3 = 1.7$$

$$y_4 = 2.0, \quad y_5 = 2.3, \quad y_6 = 2.6, \quad y_7 = 3.0$$

$$y_8 = \frac{1}{2}y_7 + \frac{1}{2}y_6 = \frac{1}{2}(3.0) + \frac{1}{2}(2.6) = 2.8$$

$$y_9 = 2.8, \quad y_{10} = 3.2, \quad y_{11} = 3.6$$

$$y_{12} = 3.6, \quad y_{13} = 4.0, \quad y_{14} = 4.4$$

$$y_{15} = 4.4, \quad y_{16} = 4.8, \quad y_{17} = 5.2$$

$$y_{18} = 5.2, \quad y_{19} = 5.6, \quad y_{20} = 6.0$$

$$y_{21} = 6.0, \quad y_{22} = 6.4, \quad y_{23} = 6.8$$

2. The first two values of the sequence y_n are $y_0 = 1.0$ and $y_1 = 1.2$. Which of the following gives the value of y_2 and y_3 that would be calculated by using Euler's method?

3. The function $f(x)$ is continuous on the interval $[0, 1]$ and $f(0) = 1$. Which of the following is the value of $f(1)$ if $f(x)$ is the solution of the differential equation $y' = 2xy$ with initial condition $y(0) = 1$?

4. The function $f(x)$ is continuous on the interval $[0, 1]$ and $f(0) = 1$. Which of the following is the value of $f(1)$ if $f(x)$ is the solution of the differential equation $y' = 2xy$ with initial condition $y(0) = 1$?

5. Referring to the following approximation of the integral using the trapezoidal rule:

$$y_0 = 1.0, \quad y_1 = 1.2, \quad y_2 = 1.4, \quad y_3 = 1.7$$

$$y_4 = 2.0, \quad y_5 = 2.3, \quad y_6 = 2.6, \quad y_7 = 3.0$$

$$y_8 = 2.8, \quad y_9 = 3.2, \quad y_{10} = 3.6$$

$$y_{11} = 3.6, \quad y_{12} = 4.0, \quad y_{13} = 4.4$$

$$y_{14} = 4.4, \quad y_{15} = 4.8, \quad y_{16} = 5.2$$

6. In order to approximate the value of the integral $\int_0^1 x^2 dx$ using the trapezoidal rule, which of the following is the value of the function $f(x)$ at $x = 0$ and $x = 1$ if $f(x) = x^2$?

7. The function $f(x)$ is continuous on the interval $[0, 1]$ and $f(0) = 1$. Which of the following is the value of $f(1)$ if $f(x)$ is the solution of the differential equation $y' = 2xy$ with initial condition $y(0) = 1$?

Math 1010 Finals Study Guide

Richie Miller



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