Name.

 Scores

 Problem 1. Variation of Parameters

 Problem 2. Undetermined Coefficients

 Problem 3. Practical Resonance

 Problem 4. RLC Circuit

 Problem 5. In-class, November 13.

 Average.

## Applied Differential Equations 2250-1 Version A-M Midterm Exam 3 In-Class Wednesday, 13 November, 2002

**Instructions**: This in-class exam is 15 minutes. Hand-written or computer-generated notes are allowed, including xerox copies of tables or classroom xerox notes. Calculators are allowed. Books are not allowed. *An answer check* is expected.

#### 5. (Particular Solution)

Solve for a particular solution  $y_p(x)$ . Cite the method(s) used and show all steps.

$$y'' - y' = \pi + e^x.$$

 Name.

 Scores

 Problem 1. Variation of Parameters

 Problem 2. Undetermined Coefficients

 Problem 3. Practical Resonance

 Problem 4. RLC Circuit

 Problem 5. In-class, November 13.

 Average.

## Applied Differential Equations 2250-1 Version N-Z Midterm Exam 3 In-Class Wednesday, 13 November, 2002

**Instructions**: This in-class exam is 15 minutes. Hand-written or computer-generated notes are allowed, including xerox copies of tables or classroom xerox notes. Calculators are allowed. Books are not allowed.

### 5. (Particular Solution)

Solve for a particular solution  $y_p(x)$ . Cite the method(s) used and show all steps.

$$y'' + y' = \pi + e^{-x}.$$

Name. \_\_\_\_\_\_
Scores \_\_\_\_\_ Problem 1. Variation of Parameters \_\_\_\_\_ Problem 2. Undetermined Coefficients

- \_\_\_\_\_ Problem 3. Practical Resonance
- \_\_\_\_\_ Problem 4. RLC Circuit
- \_\_\_\_\_ Problem 5. In-class, November 13.
- \_\_\_\_\_ Average.

# Applied Differential Equations 2250-3 Midterm Exam 3 In-Class Wednesday, 13 November, 2002

**Instructions**: This in-class exam is 15 minutes. Hand-written or computer-generated notes are allowed, including xerox copies of tables or classroom xerox notes. Calculators are allowed. Books are not allowed.

#### 5. (Particular Solution)

Solve for a particular solution  $y_p(x)$ . Cite the method(s) used and show all steps.

$$y'' - y = e^x + e^{-x}.$$