Name. $\qquad$
Scores
$\qquad$ 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.

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

Name. $\qquad$

## 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 <br> 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.

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

Name. $\qquad$
Scores
$\qquad$ 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 <br> 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.

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

