

MATH 2850: TAKE HOME 07 (25 points.)

NAME: _____

DUE: Wednesday, March 6th, at the beginning of class.

DIRECTIONS: Show all work.

1. Use the Method of Undetermined Coefficients to solve: $2y'' - y' - y = x^2 - 5e^{2x}$.

GENERAL SOLUTION:

2. Use the Method of Undetermined Coefficients to solve: $y'' - 4y' + 13y = 12 \cos(3x) - 4 \sin(3x)$.

GENERAL SOLUTION: