

Math 216 - Quiz 8

April 4, 2012

Name _____

Score _____

Show all work to receive full credit. Supply explanations when necessary.

1. (2.5 points) Solve: $y'' - 5y' + 4y = 8e^x$, $y(0) = 5$, $y'(0) = 2$

2. (2.5 points) Solve: $y'' - 2y' - 3y = 6x - 2 + 8xe^{5x}$

3. (2.5 points) Use variation of parameters to solve: $y'' - 4y' + 4y = (x + 1)e^{2x}$

4. (2.5 points) Use variation of parameters to solve: $y'' + 9y = \csc 3x$