

Quiz No:3

Math 202

Name _____ ID _____ Section _____

Q1. Verify that $y = c_1 \cosh x + c_2 \sinh x + 2e^{2x}$ is a general solution of $y'' - y = 6e^{2x}$.

Q2. Verify that $y_p = x^2 + 3x$ is a particular solution of $y'' - 6y' + 5y = 5x^2 + 3x - 16$.

Q3. Use reduction of order method to solve $y'' + 9y = 0$ with $y_1 = \sin 3x$