Quiz 5

Name:_____

Instructions: This is a group quiz. You may work in groups of up to 3 in a group, you may use a calculator, and you may use the text and notes. Be sure to leave enough work below so that you could reproduce the reasons later.

1. Given $y'' + 6y' + 9y = 0$, we know that $y_1 = e^{-3t}$. Use the Wronskian two ways to get a second solution, y_2, so that y_1, y_2 form a fundamental set.

Turn Page Over...

2. In each case, give the general solution.

   (a) $y'' - 5y' + 6y = 0$.

   (b) $y'' + 2y' + 5y = 0$

   (c) $y'' + 2y' + y = 0$