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**Math 221 Quiz 6**

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Name:\_\_\_\_\_

Score:\_\_\_\_\_

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**Instructions:** You must show supporting work to receive full and partial credits. No text book, notes, formula sheets allowed.

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1(4pts) The roots of the characteristic equation of a homogeneous linear equation with real constant coefficients are: 0, 0, 4,  $-2 - i$ ,  $-2 - i$ . Find a general solution to the equation.

2(6pts) Find a general solution to the equation:  $y''' + 2y'' + 5y' - 26y = 0$ .