

NAME:

Georgia Tech, Fall 2015
Math 2552 (Sections F1 – F4)

Quiz 6

1. Find the general solution of the differential equation:

$$x^2y'' + 3xy' + 3y = 0; \quad x > 0.$$

2. Find the general solution of the differential equation below. Make sure to remember to actually *write out* the general solution and remove any redundancy from your particular solution.

$$y'' + y = \sec x; \quad x \in (-\pi/2, \pi/2).$$

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Quiz 6

1. Find the general solution of the differential equation:

$$x^2y'' - xy' + y = 0; \quad x > 0.$$

2. Find the general solution of the differential equation below. Make sure to remember to actually *write out* the general solution and remove any redundancy from your particular solution.

$$y'' - 2y' + y = \frac{e^x}{x}; \quad x > 0.$$