

**Math 333**  
**Quiz 7**  
**Thursday, March 27, 2008**

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1. Find the general solution of the differential equation

$$y'' + 7y' + 10y = e^{2t}.$$

2. Find the general solution of the differential equation

$$y'' - 5y' + 4y = e^{4t}.$$

3. Find the general solution of the differential equation

$$y'' + 4y = 6 + t^2 + e^t.$$