

## MATH 54 – QUIZ 12

PEYAM RYAN TABRIZIAN

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

**Instructions:** You have 20 minutes to take this quiz, for a total of 10 points. May the Wronskian (determinant) of your luck be nonzero!

1. (5 points) Find a particular solution to the following differential equation:

$$y'' - 3y' + 2y = 4te^{3t}$$

(TURN PAGE)

---

*Date:* Friday, November 21, 2014.

2. (5 points) Find the general solution of the following differential equation:

$$y'' - 4y' + 5y = e^{2t} + 8 \sin(t)$$