

# Quiz 12

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

SID : \_\_\_\_\_

CAUTION. *Minor mistakes can cause much deduction of points.* So, please read each questions carefully and figure out what they want.

1. Solve the initial value problem

$$y'' - 5y' + 6y = -e^{2t}, \quad y(0) = 2, \quad y'(0) = 5.$$

2. Find a general solution to the following differential equation.

$$y'' + 4y = 8e^{2t} + 4 \cos 2t$$