

Homework 8 (MATH 2310-04)**Name (Print):****Due date: April 24, 2014**

1. Use the Laplace transform to solve the given initial value problem.

$$y''+4y'+3y=1, \quad y(0)=1, \quad y'(0)=2$$

2. Use the Laplace transform to solve the given initial value problem.

$$y''+4y=1, \quad y(0)=0, \quad y'(0)=0$$

3. Use the Laplace transform to solve the given initial value problem.

$$y''-3y'+2y=e^{3t}, \quad y(0)=1, \quad y'(0)=0$$