

**KING FAHD UNIVERSITY OF PETROLEUM & MINERALS**  
**ELECTRICAL ENGINEERING DEPARTMENT**

EE380 [091] sec # \_\_\_\_\_

quiz # 2

Name: \_\_\_\_\_ ID: \_\_\_\_\_ Grade: \_\_\_\_\_

Solve the following initial value problem using the Laplace transform

$$\ddot{y}(t) + 4\dot{y}(t) + 3y(t) = 3,$$

$$y(0) = 1 \quad \dot{y}(0) = 0$$

Verify your result by finding the solution using the method of EE 205 (time domain method)