

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

Quiz 8; March 24

MATH 54 with Prof. Sethian

GSI: Alex Carney

You have 15 minutes to complete the quiz. Calculators are not permitted.

1. (4 points) Find all solutions  $y(t)$  to the following differential equation:

$$y'' + 4y' + 4y = 4 \sin(2t).$$

2. (2 points) Find the solution to the above equation which satisfies the initial conditions  $y(0) = 1$  and  $y'(0) = 0$ .

3. (0 points) Do you have any fun spring break plans?