

MAP 2302 WRITTEN HOMEWORK #4

Due Monday September 23rd, in Canvas

Question 1. Given the differential equation

$$y'' + 2y' + 5y = -50 \sin 5t$$

find a solution of the form $y = A \cos 5t + B \sin 5t$.

Question 2. Solve the initial value problem.

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