MA 262 Section 596/597 Quiz 9

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March 31, 2023

Problem 1. Write your name, quiz number and section number at the top of a blank full sized sheet of paper.

Problem 2. Find the general solution to the differential equation

$$y'' - 12y' + 52y = 0.$$

Problem 3. A mass of 8 kg is attached to the end of a spring that is stretched .2 meters by a force of 40 N. It is set in motion with initial position $x_0 = 0$ meters and initial velocity $v_0 = 5$ meters per second. Find the function, $x(t)$, that describes the mass's position.