

MA205 - Integral Calculus

Lesson 50: Spring Mass I

1. Suppose a spring is immersed in a fluid with damping constant $c = 2$, and the spring has spring constant $k = 5$. If the attached mass is 1 kg, find the position of the mass at time t if the initial velocity is 0 and the position at $t = \frac{\pi}{2}$ seconds is 1 meter.