

1. Read Marion 6.1-6.3
True/False: I read this material.
2. Marion Appx C, Problems 2(c) and (e)
Appx D, Problem 3(a) - (c)
Ch 3, Problems 18, 32
3. (a) Determine the values for the undetermined constants in the general solution (eq 3.43 in the text) for critical damping (with $\beta^2 = \omega_0^2$) in terms of x_0 and v_0 .
(b) In problem 3-22(a), you did this for the overdamped oscillator. Show that your result for 3-22(a) reduces to the correct solution for critical damping from part (a). Specifically, define $\epsilon^2 = (\beta^2 - \omega_0^2)$, and consider the overdamped solution in the limit $\epsilon \rightarrow 0$.