

Problem 13

In this problem we ask you to supply some of the details in the analysis of a forced damped oscillator.

- (a) Derive Eqs. (10), (11), and (12) for the steady state solution of Eq. (8).
- (b) Derive the expression in Eq. (13) for Rk/F_0 .
- (c) Show that ω_{\max}^2 and R_{\max} are given by Eqs. (14) and (15), respectively.