1) Problem 5.2  Small oscillations around the minimum of a potential
2) Problem 5.5  The different expressions for harmonic oscillation
3) Problem 5.11  Frequency and amplitude from 2 positions and speeds
4) Problem 5.13  Small oscillations
5) Problem 5.29  Period of a damped oscillator
6) Problem 5.33  Driven damped oscillations
7) Problem 5.36  Transient behavior of damped driven system
8) Problem 5.41  Half-power points near resonance
9) Problem 5.44  Another interpretation of Q
10) Problem 9.1  Buoyant force in an accelerating frame

Extra Credit

1) Problem 5.39  Direct solution of the driven damped harmonic oscillator