

Physics 3221
Fall Term 2018
Homework Problem Set 7

Due Monday October 22, 12:50 pm.

Reading: Sections 5.1-5.6 from Chapter 5. This homework has a total of 13 \star s.

Problem 1. An unusual pendulum. Problem 5.4 $\star\star$ from the textbook.

Problem 2. A simple harmonic oscillator. Problem 5.8 \star from the textbook.

Problem 3. Frequency of small oscillations. Problem 5.13 $\star\star$ from the textbook.

Problem 4. A two-dimensional contraption. Problem 5.18 $\star\star\star$ from the textbook.

Problem 5. Damped oscillator. Problem 5.29 $\star\star$ from the textbook.

Problem 6. Full width at half maximum. Problem 5.41 \star from the textbook.

Problem 7. Q factor. Problem 5.44 $\star\star$ from the textbook.