

Physics 3221
Fall Term 2018
Homework Problem Set 10

Due Friday November 30, 12:50 pm.

Reading: Sections 7.1-7.8 and 7.10 from Chapter 7. This homework has a total of 11 **★**s.

Problem 1. Pendulum on a rotating wheel. Problem **7.29★★** from the textbook.

Problem 2. Pendulum on a train. Problem **7.31★★** from the textbook.

Problem 3. Bead on a rotating hoop. Problem **7.35★★** from the textbook.

Problem 4. Bead on a spinning parabola. Problem **7.41★★** from the textbook.

Problem 5. Angular momentum conservation. Problem **7.46★★** from the textbook.

Problem 6. Lagrange multipliers. Problem **7.50★** from the textbook.