

## **Problem Set 10 – due Friday, November 19 by 12:00 PM midnight**

The Problem Set has **4 questions** on **1 page**, with a total maximum credit of **30 points**.

Please turn in well-organized, clearly written solutions (no scrap work). All questions are taken from Chapter 9 of the textbook by Taylor.

**Problem 9.2** (page 360) "A donut-shaped space station ... " [7 points]

**Problem 9.9** (page 361) "A bullet of mass  $m$  is fired ... " [7 points]

**Problem 9.14** (page 362) "I am spinning a bucket of water ... " [8 points]

**Problem 9.17** (page 362) "Consider the bead threaded on a circular hoop ... " [8 points]