Due: Friday, September 30 at 4:00pm.

Reading: Finish Kleppner & Kolenkow, Chapter 2. This is a particularly challenging problem set: be sure to start early.

Reminders:

- Exam 1 will be held in class on Thursday, Oct. 6. It will include the material covered in Problem Sets 1–3.
- There will be no homework due the week of the exam. Problem Set 4 will be due on Friday, Oct. 14.

0. **Collaboration and discussion.** Please give a brief statement at the top of your homework telling us the names of all the students with whom you discussed the homework problems.

1. Kleppner & Kolenkow, Problem 2.17 (10 points)

   NOTE: The assumption in part (b) should read “Assuming that $\tan \theta > \mu$”

2. Kleppner & Kolenkow, Problem 2.19 (10 points)

3. Kleppner & Kolenkow, Problem 2.24 (10 points)

4. Kleppner & Kolenkow, Problem 2.25 (10 points)

5. Kleppner & Kolenkow, Problem 2.26 (10 points)

6. Kleppner & Kolenkow, Problem 2.28 (10 points)

7. Kleppner & Kolenkow, Problem 2.29 (10 points)

8. Kleppner & Kolenkow, Problem 2.31 (10 points)

9. Kleppner & Kolenkow, Problem 2.34 (10 points)

10. Kleppner & Kolenkow, Problem 2.35 (10 points)