

Problem Set #4 due beginning of class, Thursday May 3. Please state the lens you are using and why. Remember that you are graded on your communication of physics understanding.

1. Hand in perfect corrections for MT#1 – The exam and my comments and some answers are on the main class website.
2. Friction: please do exercises 2 and 3, in section 3.2.
3. Section 4.0 Exercise 1, collision of rotating bodies – what is the linear analogue for this problem?
4. Section 4.1 Example 1, Rotation Direction
5. Section 4.2 Exercise 1, Rotation and kinetic energy of two masses
6. Section 4.2 Exercise 2, Rotation and linear speed, bicycle problem
7. Section 4.3 Exercise 2, Turning a wrench
8. Section 4.3 Exercise 4, Pedaling a bicycle
9. Section 4.4 Exercise 2, Kinetic energy of two masses
10. Section 4.5 Exercise 1, Ranking Several Objects
11. Section 4.5 Exercise 2, Rolling Objects up a hill