

# Physics, Preparation for Tuesday, Nov. 7

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## Read N4 from *Six Ideas*

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## Office Hours

10am on Monday and Thursday till whenever people leave. If nobody shows up in the first half hour, I will likely go off and do other things. So come by between 10:00 and 10:30 and stay as long as you like. Knock loudly just in case I am in the kitchen instead of my office. Also, *I remain available at most other times!*

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## Presentations/Demonstrations

### Angular Momentum Presentations/Demonstrations

1. We will get out the gyroscope again
2. Emma
  - a. Real inertial navigation systems in airplanes, including pitch, yaw, and roll
  - b. What does roll due to the front wheel of a bicycle?

### N3 Presentations (some carried forward from Nov. 7)

3. Rebecca & Jack, N3R.2, p. 52, a graphical solution and an algebraic solution are both possible
4. Brian (maybe we only have time for one of these two):
  - a. Theory Presentation, Derivation of the Fundamental Theorem of Calculus
  - b. Theory Presentation, Uniform Circular Motion, including application to solar system orbits

### N5 Presentation

5. Trey, N5M.12, p. 83, the drag coefficient

### N6 Presentation

6. Will & Hexi, N6B.7, Lotsa practice making free body diagrams