

NORTHERN ILLINOIS UNIVERSITY  
PHYSICS DEPARTMENT

Physics 162 – Introductory Astronomy

Fall 2025

Problem Set #4

Problem Set Due: Thurs., Oct. 2, 2025  
Read OpenStax: Chapter 4

**Show explicitly all your work for full credit.**

- |                       |                  |
|-----------------------|------------------|
| 1. Expert TA: 4.1.1   | multiple choice  |
| 2. Expert TA: 4.1.3   | multiple choice  |
| 3. Expert TA: 4.1.5   | multiple choice  |
| 4. Expert TA: 4.1.6   | multiple choice  |
| 5. Expert TA: 4.1.19  | multiple choice  |
| 6. Expert TA: 4.2.9   | show calculation |
| 7. Expert TA: 4.2.15  | show calculation |
| 8. Expert TA: 4.3.2   | draw figure      |
| 9. Expert TA: 4.6.1   | true/false       |
| 10. Expert TA: 4.6.9  | true/false       |
| 11. Expert TA: 4.6.11 | true/false       |
12. Take a latitude & longitude quiz on WayGround (I'm testing this thing out). First sign in to Wayground by going to the link: <https://joinmyquiz.com> and enter the class-code: 25855570. Sign in with Google is the easiest method (if you do not have a Google account, you can easily create one). You should see a welcome sign saying: ***“You’re joining the Class: Physics 162 Astronomy – Fall 2025”*** Use the Pencil Tool on the right hand side to write your name. Skip the “parent or guardian email address” field. Then you and click on “Join game” and “Start”.

Use the snipping tool (like you did for the last problem of Problem Set #2) to show the summary page and upload it to Blackboard along with your written homework. An example is to the right:

There is no need to upload any written answers to questions for the quiz: just upload the summary picture (like the one to the right) to Blackboard (insert it into your homework so that you upload only one pdf).

