NORTHERN ILLINOIS UNIVERSITY

PHYSICS DEPARTMENT

Physics 162 – Introductory Astronomy Fall 2026

Problem Set #9

Problem Set Due: Thurs., Nov. 12, 2026
Read OpenStax: Chapter **25**

There will be a Quiz #3 on Week of Nov 16-22

Show explicitly all your work for full credit.

1. Expert TA: 25.1.2 multiple choice
2. Expert TA: 25.1.10 multiple choice
3. Expert TA: 25.1.14 multiple choice
4. Expert TA: 25.1.15 multiple choice
5. Expert TA: 25.1.20 multiple choice
6. Expert TA: 25.1.24 multiple choice
7. Expert TA: 25.1.33 multiple choice
8. Expert TA: 25.1.36 multiple choice
9. Expert TA: 25.2.1 show calculation
10. Expert TA: 25.3.2 draw figure
11. Expert TA: 25.6.1 true/false
12. Expert TA: 25.6.20 true/false

Various ways to get your 5% grade (see Syllabus) (Due Date: Dec. 12, midnight):

(a) One visit to the NIU Observatory (have the TA email me of your attendance)
or
(b) Upload to Blackboard a one-page paper on some aspect of astronomy that interests you.

The Observatory Manager to get in touch with for reservations is: Jeremy Benson
Office is in the Physics Dept.: FW 202A
Phone #: 815-753-1953 Email address: jjbenson@niu.edu
WebPage: https://www.niu.edu/clas/physics/observatory/index.shtml
It is generally open to the public on Wednesdays from 7pm-9pm.
You will need to make arrangements with Jeremy Benson before showing up. Make certain he emails me your name so that you can get full credit. If on the day you visit it is overcast, you still get full credit for a tour of the observatory.