

NORTHERN ILLINOIS UNIVERSITY

PHYSICS DEPARTMENT

Physics 210 – Mechanics & Heat

Fall 2022

Problem Set #12

Problem Set Due: Thurs., Dec 1, 2022 (late homework due date is Dec 2, 7pm)

Read OpenStax: Chapter 15.1-15.4, 15.6, Lecture Notes #12

Show explicitly all your work for full credit.

Staple solutions to Problems #1-12 together

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|-----------------------------------|-----------------------------------|
| 1. Expert TA: 20.5.1 | <i>conceptual problem—explain</i> |
| 2. Expert TA: 20.5.4 | show calculation and figure |
| 3. Expert TA: 20.5.11 | show calculation and figure |
| 4. Expert TA: 20.6.5 | show calculation and figure |
| 5. Expert TA: 21.1.12 | show calculation and figure |
| 6. OpenStax: Example 15.1 | show figure and calculation |
| 7. OpenStax: Example 15.2 | show figure and calculation |
| 8. OpenStax: Example 15.3 | show figure and calculation |
| 9. OpenStax: Example 15.4 | show figure and calculation |
| 10. OpenStax: Example 15.6 | show figure and calculation |
| 11. OpenStax: Example 15.7 | show figure and calculation |
| 12. OpenStax: Example 15.8 | show figure and calculation |

Number your solutions to these problems from 1 to 12.