

**Physics 131-01—Physics I: Mechanics**  
**Homework Assignment #3**  
**Due Wednesday, February 11, 2026, 8:25 am**

## Mastering Physics

Do the on-line assignment “HW #03.”

## Pencil-and-Paper Problems

**Ch 3:** 3.69 (30 pts.). The algebra in this problem is more complicated than you would encounter in a typical test problem, but it is good practice. Specifically, test problems normally do not require the use of the quadratic formula, since plugging it into a calculator is time-consuming and error-prone.

Please write *neatly* and show your work *clearly*. I need to be able to follow your reasoning. Homework that is incomplete or difficult to understand will not get full credit.

## Academic Honesty

If you get bogged down with any of the problems, do not hesitate to discuss them with your instructor or with a fellow student. However, if you discuss a problem with *anyone* (besides your instructor) you should acknowledge that collaboration. Please see the Academic Honesty policy for more information about appropriate and inappropriate collaboration.