

Review of Part Three

PLEASE SEAT YOURSELVES in every other row so the NINJAs and instructors can circulate easily among you.

Today's Agenda

Today we'll review Part Three of the course, finish the Manny Ramirez problem, work through the bungee jumping case study, and pivot fully into the third project.

Manny Ramirez, Part Two

According to our model, what is the minimum velocity required to hit a baseball over the Green Monster?

To what extent do you believe this result? What do you think are the most significant sources of error?

Bungee Jump, Revisited

Why is it interesting to revisit the bungee jump model? What physical phenomenon are we trying to capture that we ignored earlier?

In your own words, interpret the expression for the acceleration due to the tension in the cord. Why do we need it? What factors make it larger or smaller?

Who falls faster, Allen or Jason? Who survives the fall?

Reflection Questions

On which goals of the course have you made the most progress this semester? Where do you see opportunities to continue to stretch and develop in Project 3?

Next Steps

Before class on Monday, please do the following things:

- ☐ Write your name here: _____
- ☐ By tonight: Scan this worksheet and submit it on Canvas.
- ☐ By Sunday night: Submit Project 3 Model Development team worksheet and Final Proposal handout. Prepare for your check-in meeting.
- ☐ Meet in the STUDIOS on Monday, regardless of whether your team has a check-in meeting on Monday or Tuesday.