

# Presentation feedback form

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**Person presenting:** Steven Labalme

**Person giving feedback:** Spencer May

This form is a template for giving feedback on final oral presentations. The presenter should upload this form to Gradescope together with any auxiliary documents (comments on slides, a summary of a discussion afterwards, etc.) in order for both people to earn their respective credit for this assignment.

As a reminder, everyone must get feedback on their presentation from 2 people and must give feedback to at least one other person. For presenters, the first feedback form by May 13, and the second is due by the final presentation. I will check who gave feedback only once presentations are complete.

## Content

In one sentence (and in your own words!), what was this presentation about? What was the main result?

This presentation was about the Hermite and Legendre polynomials (particularly as they relate to the Schrödinger wave equation).

What did you find most interesting about this subject?

As I am taking Quantum Mechanics right now, I was very excited to learn about how the polynomials we have used willy-nilly come about. I found the in-depth derivation of the Hermite polynomials especially satisfying because I felt I really understood how one could come up with these polynomials.

Were there any places in the talk that you were confused?

I was not often confused in this presentation. Steven was very succinct and clear, and gave nice motivations. I imagine however that for people not familiar with Quantum Mechanics, that may be the sticking point, where people are liable to get confused. Some of this naturally has to be covered quickly to get to the Complex Analysis part of the project.

Were there any pictures, examples, or analogies that you found especially enlightening?

The pictorial proof of the Residue Theorem was nice, and I liked the analogy to microwaves to ground us in why this is important.

## Mechanics

How long was this presentation? Did you think that anything should be given more or less time?

The presentation was about 15 minutes by my watch, but I started it a little late, so I'm not sure exactly. Since this is a math class and not a physics class, I'm inclined to suggest you cut down on the physics background and increase the math, but I feel the presentation worked well regardless.

The talk was well-organized.

☒ Strongly agree

☐ Agree

☐ Neutral

☐ Disagree

☐ Strongly disagree

The speaker demonstrated proficient board work or use of slides.

Strongly agree

Agree

Neutral

Disagree

Strongly disagree

The speaker communicated in a clear, precise manner.

Strongly agree

Agree

Neutral

Disagree

Strongly disagree

## General feedback

The speaker captured my interest.

Strongly agree

Agree

Neutral

Disagree

Strongly disagree

What is (at least) one thing you liked about the talk?

I think that the derivation of Rodrigues's Formula was particularly enlightening and I could see more time spent on that if you want, though that is not necessary; overall, the presentation was nicely polished in terms of time spent on things.

I also enjoyed the derivation of the solution to the Hermite equation, because it was worked out in enough detail that I could see where everything came from.

What is (at least) one thing you thought could be improved? (be constructive!)

- When you say that cut lines in the proof of the Residue Theorem are taken in the limit as the lines approach each other, I wonder if a limit is really necessary; can you just travel back and forth along exactly the same line?
- The Pochhammer symbol identities slide seemed out of place. Clearly, those are important to the derivations you did in your paper, but in the presentation they seemed sort of irrelevant to me (I would just look them up if needed).

Overall, very good job!