

### Problem #1 (50%)

Create and deliver a presentation in Microsoft PowerPoint that explains the Fourier transform to college freshman in electrical engineering on their first day of school. The presentation shall be 15 minutes in duration with 5 minutes of questions. Those that listen to your presentation should come away knowing what a Fourier transform is, how they are calculated, and some applications of Fourier transforms in electrical engineering.

#### Notes

Keep in mind the following for your presentation:

- You should be the center of focus for the presentation.
- Use of text shall be absolutely minimized.
- Be as visual as possible.
- Consider the audience, which likely does not have all the math and physics background that you may “think” is necessary.
- Be prepared for things to go wrong when you present.

### Problem #2 (50%)

On the day of the presentations, you shall submit an evaluation for each of the presenters, except for yourself. You will evaluate them based using the rubric below. You will be graded on how well you evaluate the other presenters. This evaluation will not be considered when grading the other presentations.

Category	Score (0 to 5)	Notes
<b>Slides</b> – Were the slides clear, simple, use minimum amount of text, and rapidly interpretable? Did you catch any mistakes?		
<b>Presenter</b> – Was the presenter the main focus? Did they maintain eye contact with the audience? Did they misuse the laser pointer? Did they say something incorrect? Did the presenter react well to anything that went wrong?		
<b>Overall</b> – Score the overall effectiveness of the presentation? Aside from questions, was the presentation no more than 15 minutes? Will everyone in the audience understand Fourier transforms based solely on the presentation?		
<b>Extra</b> – Did the presentation have any exceptional elements worthy of extra credit? Perhaps an incredible animation or something else. Zero is the normal score for this category.		

5 = Perfection, 4 = Very good, but some small mistakes were made, 3 = good effort, but needs improvement, 2 = needs considerable improvement, 1 = little effort was made, 0 = no effort was made.