Final Lab: Beamer and Oral Presentations

The final lab in this course is to construct and give a short mathematics presentation using the "Beamer" package in LaTeX (Beamer produces a presentation much like PowerPoint). Here are some guidelines for the lab:

- The oral presentations will be 3 minutes per student- If there are two students on one project, you'll have 6 minutes total, for example.

- You'll write up your presentation in Beamer (we'll start this next week).

- You'll upload the PDF file (and any other material, like animations, etc) to your CLEo folder.

Topic Ideas

Find a topic that you like, and that you can make accessible to a student in Calculus III.

Timeline

- This week: Decide on groups and topics. Use the templates from last week to get you started.

- Next week (Last week of class): Finish up presentations, get ready for your talk.

Grading

The oral presentations are worth 20 points total. Here is the rubric I'll use:

- (4 points) Does the presentation effectively represent your topic? (That is, have you avoided trying to do too much or too little?)

- (4 points) Does your presentation effectively use Beamer - Are the slides error free and coherent? Are references included?

- (4 points) Are the mathematics and figures typeset/placed in an aesthetically pleasing way?

- (4 points) Were the speaker(s) clear, loud enough, and understandable?

I'll reserve 4 points for a class grade- That is, each student will turn in a "grade" on each speaker based on the above criteria (just a plus/minus score for each), and I will use that as a basis for the last 4 points.

Some notes about giving a good presentation:

- Do not simply read your slides. Include enough information so that you recall what details to fill in, but the slides themselves should be "clean".

- Playing with "frills" (like flying bullet points) might be fun, but they tend to be distracting.

- Our talks will be short, so focus on just one or two important topics/examples that you want the audience to remember later- Don't try to jam everything in!

Common Issues:

How can I insert images from the Web?

You should use either JPG or PNG format for pictures. If you download a different format, see me about how to convert formats, or search for an "online image format converter".

Using verbatim in the frames

It is helpful to be able to include some Maple commands in the slides.

Here is an example frame for Beamer- Note the command [fragile] (that's what you need to make it work).

```
\begin{frame}[fragile]

 Here is an example of using the \verb+verbatim+ command:

\begin{verbatim}

plot(sin(x),x=-Pi..Pi);
int(sin(x)*cos(2*x),x=0..Pi);

\end{verbatim}
\end{frame}
```