

**MA 601**  
**Homework #2**  
Due Monday, September 18

Next time we will discuss some technology. If you can, bring a laptop to class.

1. Experiment with GeoGebra—you can install it on your computer or run it online. See <http://www.geogebra.org/cms>.
2. Experiment with Desmos. See <https://www.desmos.com>.
3. Experiment with SketchUp if you are able—this has to be installed, but there is a free version. See <https://www.sketchup.com>.
4. Ask someone to show you how to run  $\text{T}_\text{E}\text{X}$  and get suggestions for what version you might want to install on your computer.
5. Look over my sample  $\text{L}^{\text{A}}\text{T}_\text{E}\text{X}$  files here: <http://www.ms.uky.edu/~lee/latex/latex.html>.
6. Reach chapter 10 in the text (Technology).
7. Think of potential examples of using math-focused technology in these different ways, and jot them down:
  - (a) On the fly to illustrate some concept that might be harder or slower to draw on the board.
  - (b) Prepared presentation to illustrate some concept.
  - (c) To ask questions that are difficult to ask on paper.
  - (d) To experiment, leading to conjectures.
  - (e) To visualize three-dimensional mathematical objects.
  - (f) For assessment.
  - (g) Other. . . .