**Chapter 2**

**Research Methodology**

Assignment 1

This is done most easily as a homework assignment:

* Do the Dot Threshold versions of Method of Limits, Method of Constant Stimuli, and Method of Adjustment ([ISLE 2.2.a](http://isle.hanover.edu/Ch02Methods/Ch02MethodOfLimits.html), [ISLE 2.3.a](http://isle.hanover.edu/Ch02Methods/Ch02MethodOfConstantStimuli.html), [ISLE 2.4.a](http://isle.hanover.edu/Ch02Methods/Ch02MethodOfAdjustment.html)).
* Do you get the same threshold in all cases?
* Why or why not?

Assignment 2

This is also best done as a homework assignment, but it might work best if assigned before Steven’s Power Law is discussed in class, so students can compare their results to this law.

* Run the Tone Loudness ([ISLE 2.6.b](http://isle.hanover.edu/Ch02Methods/Ch02MagnitudeEstimationTone.html)) and Line Length ([ISLE 2.6.c](http://isle.hanover.edu/Ch02Methods/Ch02MagnitudeEstimationLineLength.html)) Magnitude Estimation experiments.
* Either screen-capture the graphs of your results or download your data and create your graphs.
* Compare the shapes of the lines of your two results. Are they the same?

Assignment 3

This can be used as a discussion question in class.

How does Signal Detection Theory look at sensitivity differently than measuring thresholds?