

Math 100 — Assignment 8 (MATLAB), due Oct. 9, 2012

You may again submit a diary file of your work session. However, if you write or use any M-files, please submit them as well so that I can reproduce your work.

All problems are taken from our textbook *Experiments in MATLAB*.

1. Do Exercise 5.1 (Two-by-two). In particular, what's the difference between the problems in parts (c) and (d)?
2. Do Exercise 5.4 (Matrix equations).
3. Do Exercise 5.5 (More fruit).
4. Do Exercise 5.6 (Truss).
5. Do Exercise 6.2 (Flip the fern).
6. Do Exercise 6.7 (Sierpinski's triangle). Concentrate on `fern.m`. You will probably want to change the viewing window by using `axis([0 1 0 1])` and `axis square` instead of `axis([-3 3 0 10])`.
7. [Extra Credit] Can you modify your `sierpinski.m` code so that it produces a square *Sierpinski carpet*, i.e., the *2D Menger sponge*?

