

## Homework 1

Due Friday, September 2nd at 5pm

Reading: Please read the handout “What Works, What Doesn’t” before Wednesday. Read Boas Ch. 1, sections 1-4 and 11-15 and the rest of the chapter during next week.

1. Boas Ch. 1, Sec. 1, Problem 2. I’ll abbreviate this as Problem 1.2 and will always mean Ch. 1 below.
2. Use Boas’ technique to find the rational form for the decimal in Problem 1.9. Be sure to show your work. As with many of the problems in the book, you can check your answer against the one given in the back.
3. Boas Problem 1.12.
4. Boas Problem 2.2 and 2.4.
5. Boas Problem 4.4.
6. Using the same method as in class and leading up to Boas’ Eq. (12.5), derive the series given in Eqns. (13.2) and (13.3).