

## Week 2

### Reading:

- *Geometry, Euclid and Beyond*:
  - pages 27 - 31, up until the “method of superposition” part.
- *Euclid’s Elements Book I*: <https://aleph0.clarku.edu/~djoyce/java/elements/bookI/bookI.html>
  - Propositions 3, 4, 5, 11, 13.

### Exercises/questions:

1. Follow along Euclid’s steps to recreate the constructions you see from propositions 3, 4, 5, 11, 13 in *Elements*.
2. Exercise 2.7.
3. *Extra problem*: For Euclid, a mathematical object basically only exists if it is constructable via straightedge and compass. Following in this philosophy, how would you define the natural numbers? What about addition and subtraction?
4. *Challenge problem*: Exercise 2.8