

Reading Assignment 1:

Greek geometry and the role of the diagram

Required Readings:

- Book 1 of Euclid. *The Thirteen Books of Euclid's Elements: Books I-II*, volume 1. Cambridge University Press, 1908
 - Please read the Common Notions and Postulates (pages 153-155) and the proofs or propositions 1, 2, 4, 7, 16, and 47. You may ignore the extensive commentary.
- Sections 1 and 2-2.1.2 of Reviel Netz. *The shaping of deduction in Greek mathematics: A study in cognitive history*. Cambridge University Press Cambridge, 1999

Questions:

- State Euclid's third postulate in your own words.
- State Euclid's second and 47th proposition in your own words.
- What does Netz mean by “under-specification”? Can you find an example of an object that is either “under-specified” or “completed unspecified” in one of the proofs from the assigned sections of Euclid?

References

Euclid. *The Thirteen Books of Euclid's Elements: Books I-II*, volume 1. Cambridge University Press, 1908.

Reviel Netz. *The shaping of deduction in Greek mathematics: A study in cognitive history*. Cambridge University Press Cambridge, 1999.