

# Reading Assignment 1: Diagrams in Greek Geometry

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## REQUIRED READINGS

- Book 1 of Euclid 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 Netz 1999

## QUESTIONS

1. State Euclid's third postulate in your own words.
2. State Euclid's second and 47th proposition in your own words.
3. 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

- [1] Euclid. *The Thirteen Books of Euclid's Elements: Books I-II*. Ed. by T. L. Heath. Vol. 1. Cambridge University Press, 1908.
- [2] R. Netz. *The shaping of deduction in Greek mathematics: A study in cognitive history*. Cambridge University Press Cambridge, 1999.