Reading Assignment 9: Eudoxus' Theory of Proportions and Number Theory

REQUIRED READINGS

- Book V of Euclid 1908a
  - Please read the definitions (pages 113-114) and proofs of propositions 1, 4, and 13. Ignore the commentary.
- Book VII of Euclid 1908a
  - Please read the definitions (pages 277-279) and proofs of propositions 1 and 2. Ignore the commentary.
- Book X of Euclid 1908b
  - Please read the commentary on pages 1-3, and the definitions on page 10.

QUESTIONS

1. State in your words what the first proposition of Book V asserts.
2. What is a number according to Euclid?
3. What was the Pythagorean discovery of incommensurability of the diagonal?

REFERENCES

[1] Euclid. *The Thirteen Books of Euclid's Elements: Books III-IX*. Ed. by T. L. Heath. Vol. 2. Cambridge University Press, 1908.
[2] Euclid. *The Thirteen Books of Euclid's Elements: Books X-XIII*. Ed. by T. L. Heath. Vol. 3. Cambridge University Press, 1908.