

فلسفه ریاضیات

۲۲-۱۲۶

نیمسال دوم ۱۴۰۲-۱۴۰۳

دانشکده علوم ریاضی، دانشگاه صنعتی شریف

A. Introductory Texts

- **Bostock, D.** *Philosophy of Mathematics: An Introduction* (2009)
 - **Brown, J. R.** *Philosophy of Mathematics*, 2nded (2008)
 - **Çevik, A.** *Philosophy of Mathematics: Classic and Contemporary Studies* (2022)
 - **Colyvan, M.** *An Introduction to the Philosophy of Mathematics* (2011)
 - **Friend, M.** *Introducing Philosophy of Mathematics* (2007)
 - **George, A. and D. Velleman** *Philosophies of Mathematics* (2002)
 - **Hamkins, J. D.** *Lectures on the Philosophy of Mathematics* (2020)
 - **Körner, S.** *The Philosophy of Mathematics: An Introductory Essay* (1960)
 - **Linnebo, Ø.** *Philosophy of Mathematics* (2017)
 - **Ravn, O. and O. Skovsmose** *Connecting Humans to Equations* (2019)
 - **Shapiro, S.** *Thinking about mathematics: The philosophy of mathematics* (2000)
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- *Recommended as course texts*
 - *Old but good*
 - *Good, philosophy oriented*

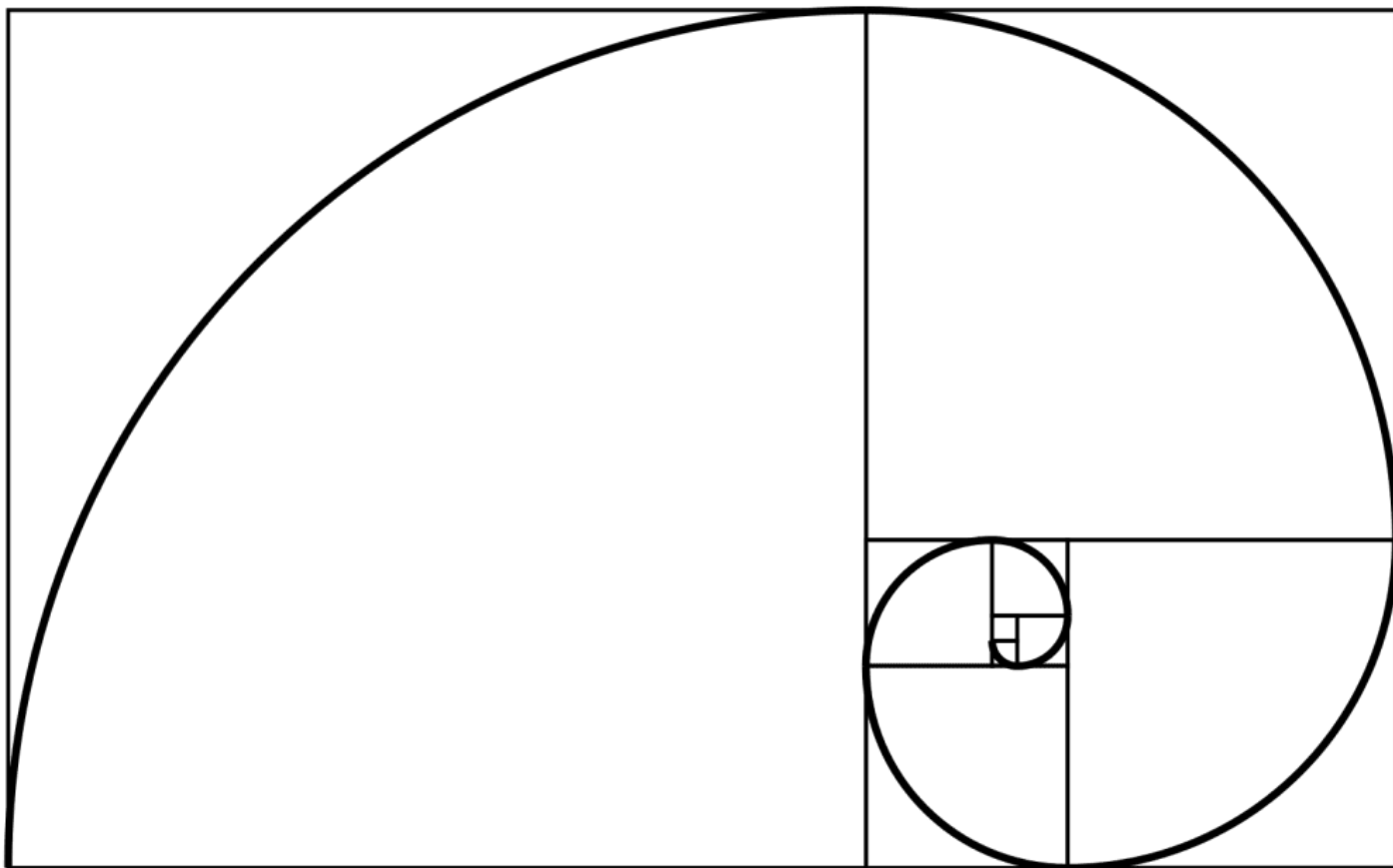
B. General Collections of Essays

- Benacerraf, P. and H. Putnam *Philosophy of Mathematics: Selected Readings*, 2nded (1983)
- Dybjer, P. et al *Epistemology versus Ontology* (2012)
- Ewald, W. *From Kant to Hilbert: A Source Book in the Foundations of Mathematics*, Vols. 1&2 (1996)
- Hart, W. *The Philosophy of Mathematics* (1996)
- Irvine, A.D. *Philosophy of Mathematics* (2009)
- Lindström, S., et al *Logicism, Intuitionism and Formalism: What has become of them?* (2009)
- Shapiro, S. *The Oxford Handbook of the Philosophy of Mathematics and Logic* (2005)
- Van Heijenoort, J. *From Frege to Gödel: A Source Book in Mathematical Logic* (1967)

Chronology: 'Greek' Mathematics

Thales	-590	Euclid	-300
Pythagoras	-530	Archimedes	-250
Theaetetus	-390	Apollonius	-220
Plato	-380	Nicomachus	+90
Eudoxus	-370	Diophantus	+250
Aristotle	-350	Pappus	+300

مستطیل طلائی



مراجع اصلی افلاطون

- ***Collected Dialogues, including the Letters***
Hamilton & H. Cairns (Eds.), Princeton U. Press 1963
- Wedberg, A. ***Plato's Philosophy of Mathematics***
Almquist and Wiksell 1955

گفتگوهای اصلی مربوط به ریاضیات و معرفت شناسی

- **Meno, Republic**
- **Phaedo, Theaetetus, Parmenides, Philebus, Timaeus**
- **Gorgias, Phaedrus, Laws**

مراجع اصلی ارسطو

- ***The Basic Works of Aristotle***

McKeon, R. (ed.), Modern Library 2001

- McKeon, R. ***Introduction to Aristotle***, Modern Library 1947

- Bostock, D. 'Aristotle's Philosophy of Mathematics' in ***Oxford Handbook of Aristotle*** (2012)

- Mendell, H. 'Aristotle and Mathematics', in ***Stanford Encyclopedia of Philosophy***

<https://plato.stanford.edu/entries/aristotle-mathematics/>