Eudoxus, the most important mathematician you've never heard of

Yes, we speak of things that matter
With words that must be said
"Can analysis be worthwhile?"
"Is the theater really dead?"

Simon and Garfunkel,
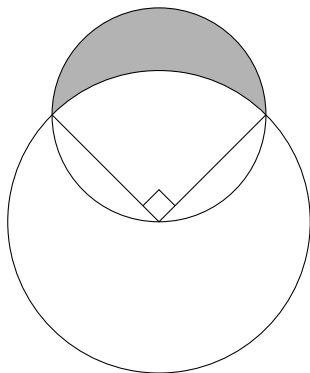"The Dangling Conversation"
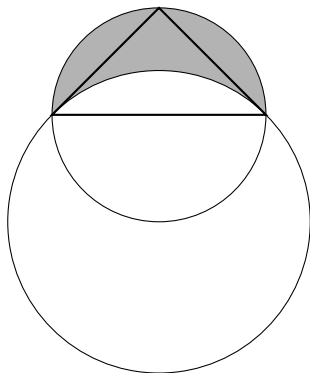
Before Eudoxus

Eudoxus: Definitions

Eudoxus: Theorems

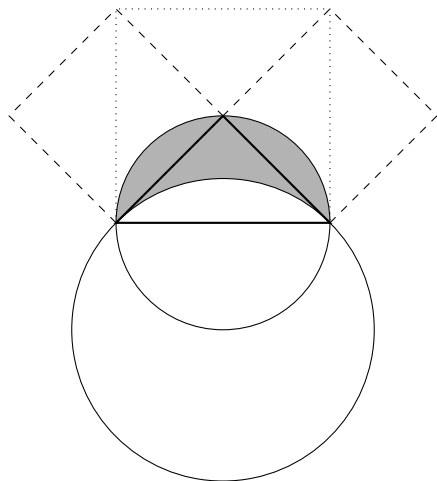After Eudoxus

Hippocrates of Chios and his Lune

Hippocrates of Chios and his Lune

Hippocrates of Chios and his Lune
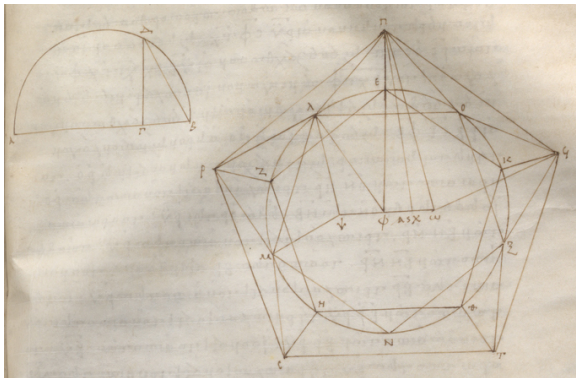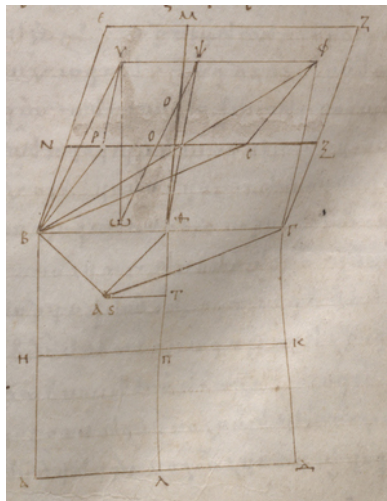
Hippocrates of Chios and his Lune

Greek geometric figures

Greek geometric figures
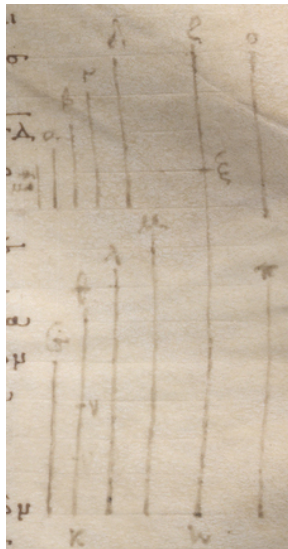
Greek geometric figures

Greek geometric figures

Greek number-theoretic figures

Greek number-theoretic figures

"Dedekind cuts"

"Dedekind cuts"

"Dedekind cuts"

Definition (*Elements* V.5)

"Magnitudes are said to be in the same ratio, the first to the second and the third to the fourth, when, if any equimultiples whatever be taken of the first and third, and any equimultiples whatever of the second and fourth, the former equimultiples alike exceed, are alike equal to, or alike fall short of, the latter equimultiples respectively taken in corresponding order." (trans. Thomas Little Heath)
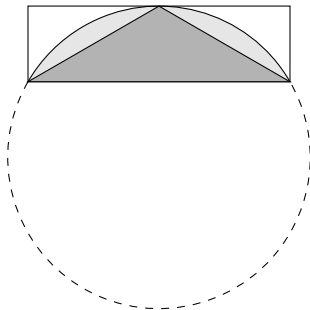
The "Archimedean" property

The "Archimedean" property

Definition (*Elements* V.4)

"Magnitudes are said to have a ratio to one another which are capable, when multiplied, of exceeding one another." (trans. Thomas Little Heath)
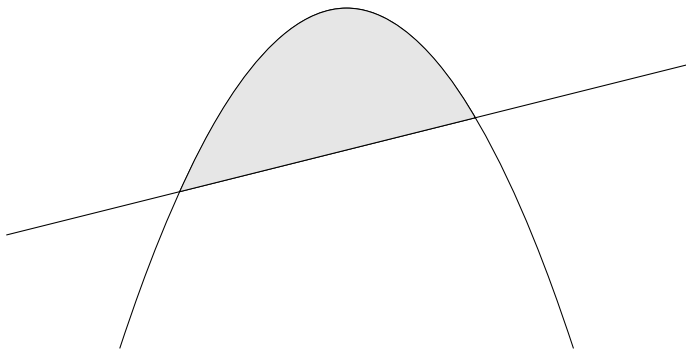
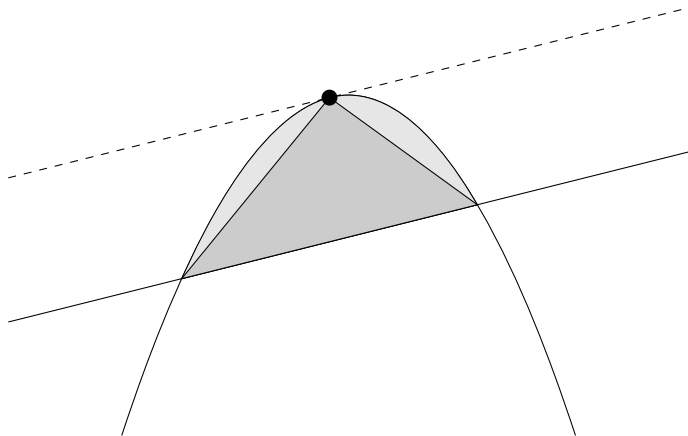# The method of exhaustion
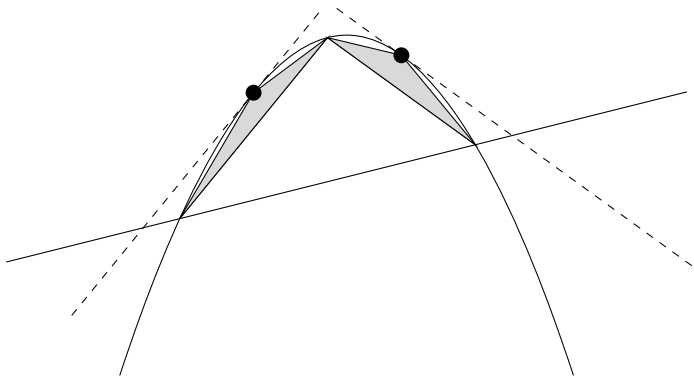
The method of exhaustion
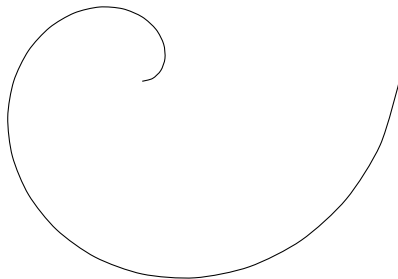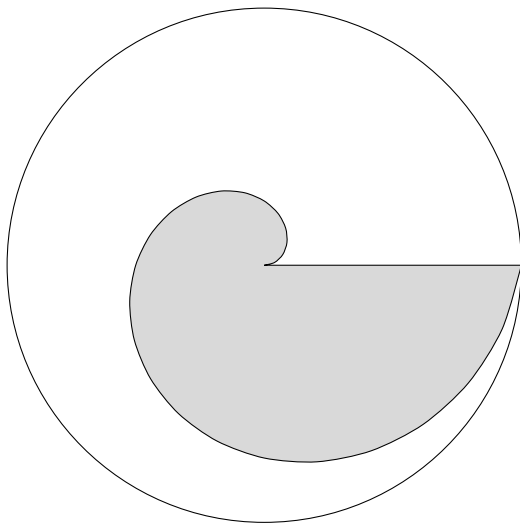
Archimedes

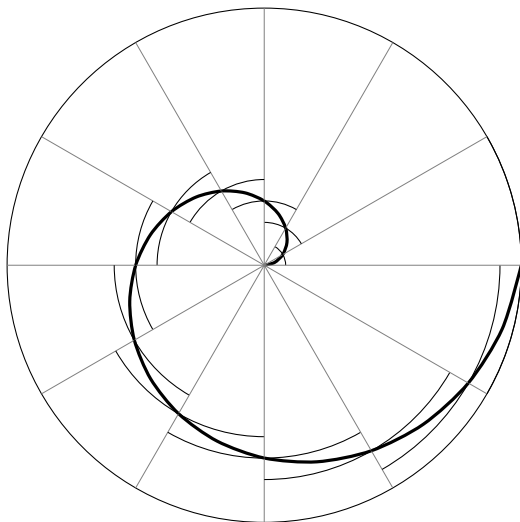# Archimedes's parabola

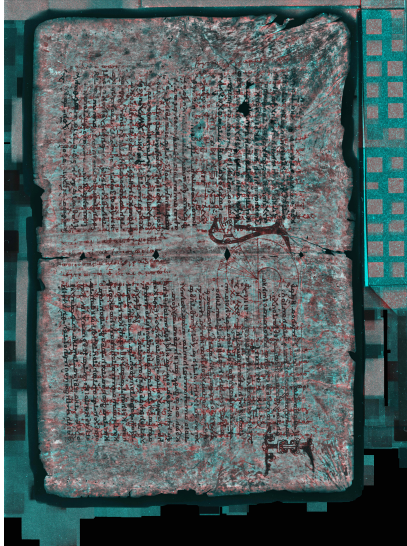# Archimedes's parabola
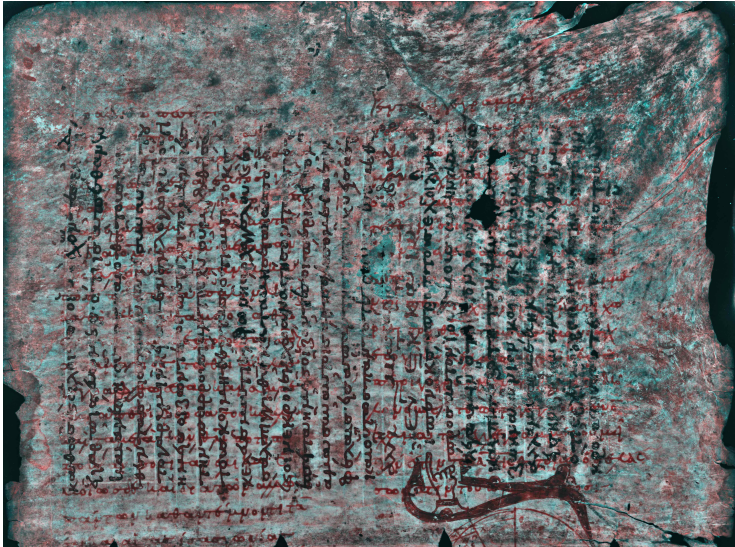
Archimedes's parabola
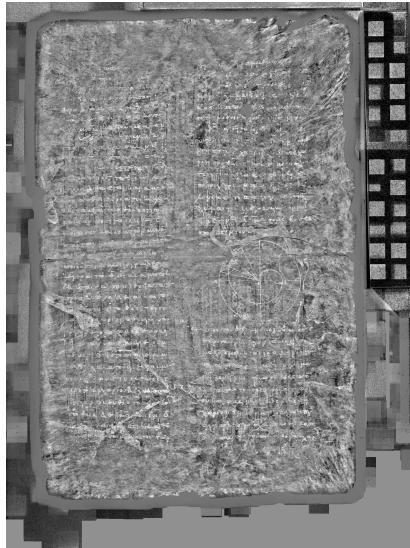
Archimedes's spiral

Archimedes's spiral

Archimedes's spiral
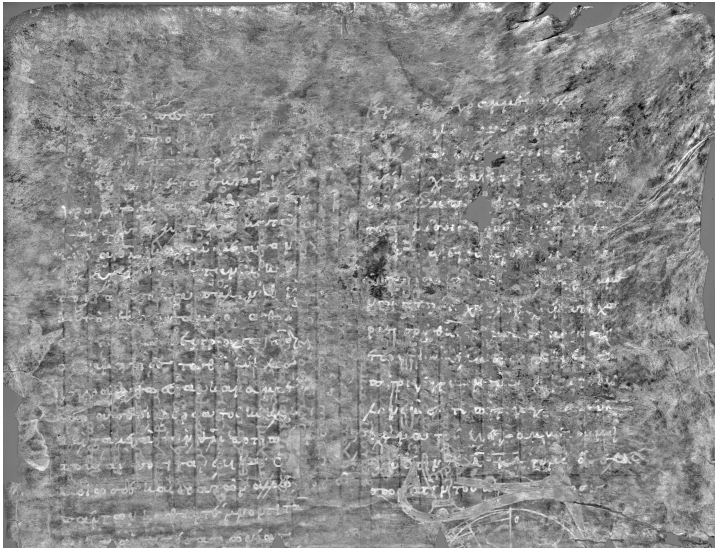
The Archimedes Palimpsest

The Archimedes Palimpsest

The Archimedes Palimpsest

The Archimedes Palimpsest

The Archimedes Palimpsest

The Archimedes Palimpsest