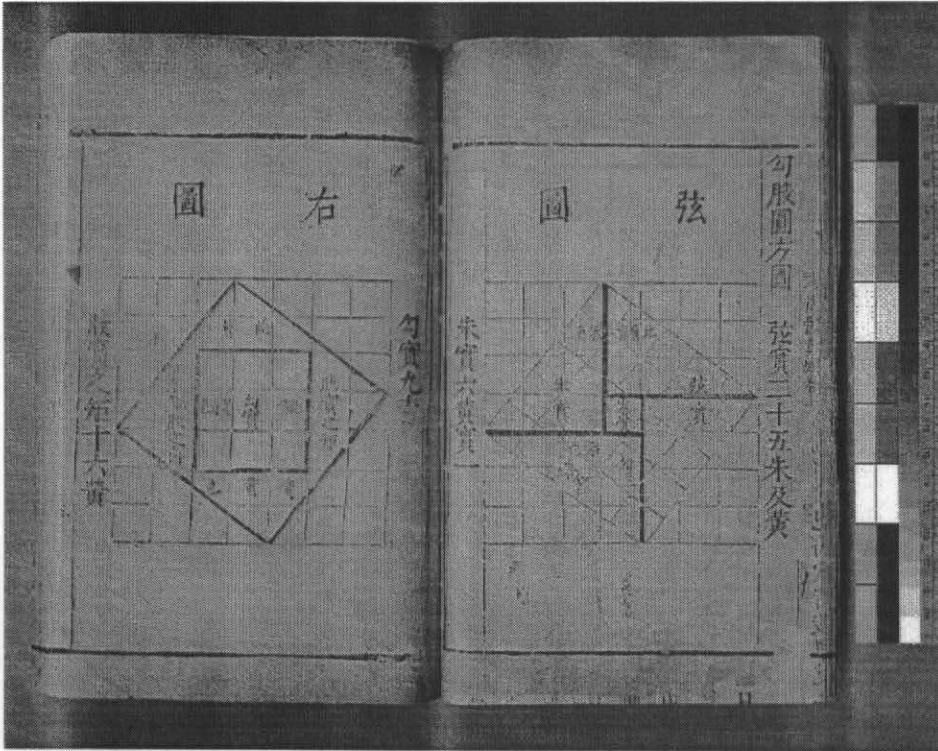


Zhoubi suanjing

These two pages are from the *Zhoubi suanjing* (*Arithmetical Classic of the Gnomon and the Circular Paths of Heaven*), a Chinese book on astronomy and mathematics dated to approximately 100 BCE. These images are from a Ming dynasty copy printed in 1603. These diagrams were added to the original text at some point an attempt to illustrate a dissection proof of the "Pythagorean Theorem", known by the Chinese as the *Gougu* theorem. A complete English translation and analysis of the *Zhoubi suanjing* is given by Christopher Cullen in his *Astronomy and mathematics in Ancient China: the Zhou bi suan jing* (Cambridge University Press, 1995). See, in particular, appendix one.



On [this page](#), the diagram on the right is usually called the "hypotenuse diagram" and illustrates the proof of the theorem in the 3-4-5 case. The diagram on the left shows how a square of side 3 fits into a square of side 5.

