





$\Sigma \cup \mu \pi o \sigma ı \alpha \dot{\alpha}$ (Quaestiones Convivales): 718 e-f (Book 8, Chapter 2, Section 1)
"Therefore even Plato himself harshly criticized Eudoxus, Archytas, and Menaechmus for attempting to reduce the duplication of the cube to mechanical constructions with instruments, just as though they were trying, in an unreasoning way, to take two mean proportionals in continued proportion any way that they might; in this way the good of geometry is utterly destroyed and it falls back on the senses; it is not carried above to apprehend the eternal and immaterial forms, before which God is always God."

Two line segments $C D$ and $E F$ are mean proportionals in continued proportion between $A B$ and $G H$ if

$$
\frac{A B}{C D}=\frac{C D}{E F}=\frac{E F}{G H}
$$

Hippocrates of Chios (ca. $470-$ ca. 410 BCE ): If, in addition, $G H=2 A B$, then

$$
A B \cdot E F=C D^{2} \quad \text { and } \quad 2 A B^{2}=C D \cdot E F
$$

so

$$
2 A B^{3}=C D^{3} .
$$

[^0]
[^0]:    ${ }^{1}$ variant readings: $\delta i \not \chi \chi$ $\lambda$ ó $\gamma o u, \delta \iota \alpha \lambda o ́ \gamma o u$

