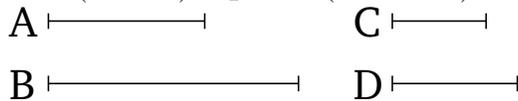


Book 8

Proposition 16

If a square number does not measure a(nother) square number then the side (of the former) will not measure the side (of the latter) either. And if the side (of a square number) does not measure the side (of another square number) then the (former) square (number) will not measure the (latter) square (number) either.



Let A and B be square numbers, and let C and D be their sides (respectively). And let A not measure B . I say that C does not measure D either.

For if C measures D then A will also measure B [Prop. 8.14]. And A does not measure B . Thus, C will not measure D either.

[So], again, let C not measure D . I say that A will not measure B either.

For if A measures B then C will also measure D [Prop. 8.14]. And C does not measure D . Thus, A will not measure B either. (Which is) the very thing it was required to show.