

## Book 9

### Proposition 24

If an even (number) is subtracted from an (other) even number then the remainder will be even.



For let the even (number)  $BC$  have been subtracted from the even number  $AB$ . I say that the remainder  $CA$  is even.

For since  $AB$  is even, it has a half part [Def. 7.6]. So, for the same (reasons),  $BC$  also has a half part. And hence the remainder [ $CA$  has a half part]. [Thus,]  $AC$  is even. (Which is) the very thing it was required to show.