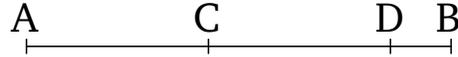


# Book 9

## Proposition 26

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



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

For since  $AB$  is odd, let the unit  $BD$  have been subtracted (from it). Thus, the remainder  $AD$  is even [Def. 7.7]. So, for the same (reasons),  $CD$  is also even. And hence the remainder  $CA$  is even [Prop. 9.24]. (Which is) the very thing it was required to show.