

Book 9

Proposition 25

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



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

For let the unit CD have been subtracted from BC . DB is thus even [Def. 7.7]. And AB is also even. And thus the remainder AD is even [Prop. 9.24]. And CD is a unit. Thus, CA is odd [Def. 7.7]. (Which is) the very thing it was required to show.