

G and F (respectively, by) multiplying some number C . Thus, as A is to B , so G (is) to F [Prop. 7.18]. But, also, as A (is) to B , so G (is) to E . And thus, as G (is) to E , so G (is) to F . Thus, G has the same ratio to each of E and F . Thus, E is equal to F [Prop. 5.9].

So, again, let E be equal to F . I say that as A is to B , so C (is) to D .

For, with the same construction, since E is equal to F , thus as G is to E , so G (is) to F [Prop. 5.7]. But, as G (is) to E , so C (is) to D [Prop. 7.17]. And as G (is) to F , so A (is) to B [Prop. 7.18]. And, thus, as A (is) to B , so C (is) to D . (Which is) the very thing it was required to show.