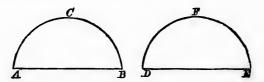
Proposition XXIV. THEOREM.

Similar segments of circles, upon equal straight lines, are equal to one another.



Let ABC, DEF be similar segments of \odot s on equal st. lines AB, DE.

Then must segment ABC=segment DEF.

For if segment ABC be applied to segment DEF, so that A may be on D and AB on DE, then B will coincide with E, and AB with DE;

∴ segment ABC must also coincide with segment DEF; III. 25.

∴ segment ABC=segment DEF. Ax. 8.

We gave one Proposition, C, page 150, as an example of the way in which the conceptions of Flat and Reflex Angles may be employed to extend and simplify Euclid's proofs. We here give the proofs, based on the same conceptions, of the important propositions XXII. and XXXII.

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