

Theorem (Sent by Alpaslan Ceran)

Let ABC be a right triangle, $m(\hat{A}) = 90^\circ$.

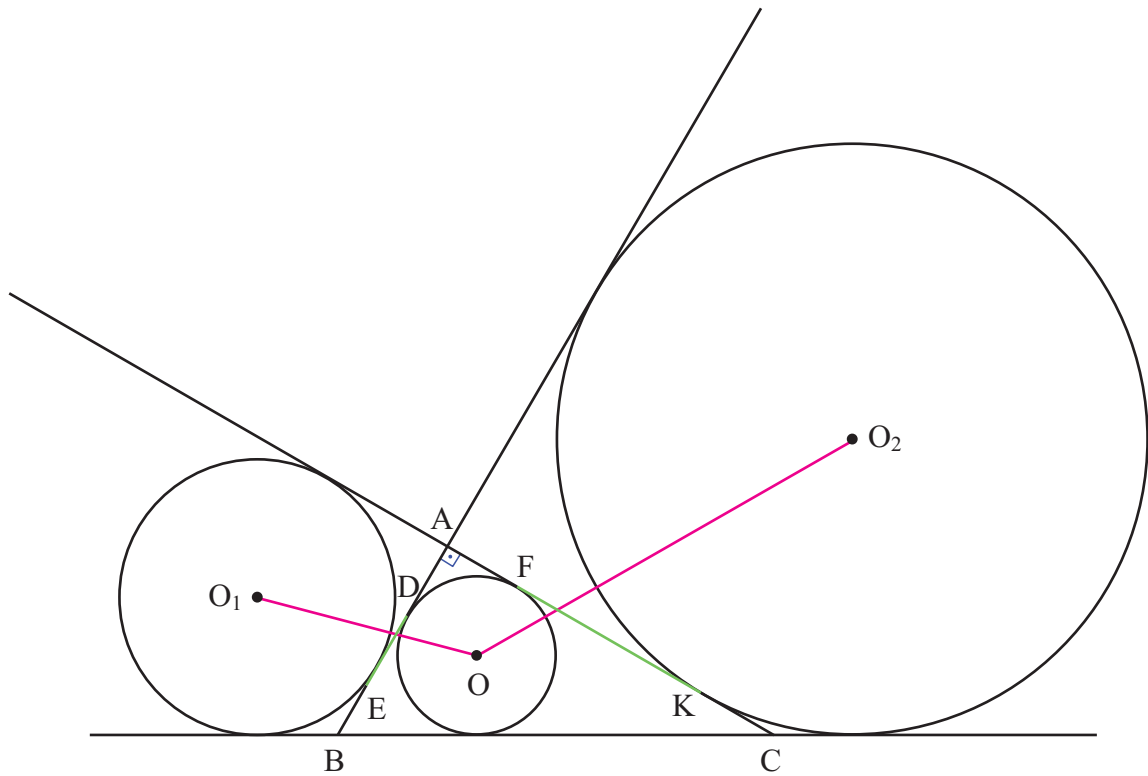
The incircle of ABC with a center O is tangent to line AB at D and line AC at F.

The outercircle of ABC with a center O_1 is tangent to line AB at E.

The outercircle of ABC with a center O_2 is tangent to line AC at K.

Then,

$$\frac{|DE|}{|FK|} = \left(\frac{|OO_1|}{|OO_2|} \right)^2$$



PROOF

Waiting for proofs to the bilgi@matematikvadisi.com.tr