

Let the point of intersection of FD, BK be 'O'

By using Menelaus theorem in

abt CG abt AB

= 1

= 1

-----------------(1)

Similarly, Menelaus theorem is ADC, ,

abt BK abt CE abt CG

= 1 ---------(2)

= 1 -------- (3)

= 1 -------- (4)

we know that from (1)

by substituting in (4)

------------------(5)

Substituting (5) in (3)

----------------------(6)

Menelaus Theorem in abt BK ; abt BK

= 1 ---------------- (7)

= 1 --------------- (8)

Substituting (7), (6) in (8)

=

=

CK. FK - CK.AK = AK. (FK+CK)

-------------------------(9)

Substituting 'AK' expression in (1)

=

=

Ms.Naga Bhavya Sree

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