**Three tangents problem**

Prove that : GE = FH





(1) AB = CD

(2) AB = AG + GB = GE + GE

 = GE + (GE + EF)

 = 2GE + EF

(3) CD = CH + HD = EH + FH

 = (EF + FH) + FH

 = EF + 2FH

(4) By (1), (2) and (3), GE = FH

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