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then cosz 2 cos z p 2 cosw 2 let f z be a function analytic at 0 and g z f z2 show that g 2n 1 0 0 for all positive integers n proof since f z is analytic at 0 f z p å n 0 anzn in some disk jzj r therefore g z f z2 å n 0 anz2n in jzj r and hence m 0 m

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