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notice that f z z 1 sinhz 1 is analytic for z 6 0 which means that z 0 is an isolated singularity and is in fact an essential singularity 6 consider the function sinz f z cos z3 1 classify the singularity at z 0 and calculate the residue

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theorem 2 let f z be holomorphic in a neighbourhood of the origin with f0 0 6 0 then there exists a possibly smaller neighbourhood or the origin and a function g z holomorphic in this neighbourhood so that f z f 0 g z n

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complex analysis notes christopher eur notes taken while reviewing but closer to relearning complex analysis through ssh03 and ahl79 some solutions to the exercises in ssh03 are also written down i do not claim that the notes or solutions written here are correct or elegant 1 preliminaries to complex analysis

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we simply check now that the real and imaginary parts of the complex numbers $z_1z_2z_3$ and $z_1z_2z_3$ coincide thus $z_1z_2z_3 = z_1z_2z_3$ e notice that $z_1z_2z_3 = x_1 iy_1 x_2 y_2 i x_3 y_3 x_1 x_2 y_2 y_1 x_3 y_3 i x_1 x_3 y_3 y_1 x_2 y_2$ while $z_1z_2z_1z_3 x_1 iy_1 x_2 iy_2 x_1$

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