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Complex Analysis Fall 2007 Homework 2: Solutions 1.3.6. (a) ... 1While it is only implicit in this problem, one can easily show that the equation tan w= i has no solution for 2 C. This exercise, therefore, proves that the function f(z) = tanz maps Conto the set Cn fi;¡ig 1.

MATH 304 — Complex Analysis Solution to Homework 6 1. Note that zn is a double pole of 1/cos2 z for any integer n. Since f(z) is analytic on the whole real axis, so f(z) = X? k=0 ak(z ? zn)k, where ak = f(k)(z n) k!. Also, 1 cos2 z b2 (z ? zn)2 b1 (z ? zn) X?

k=0

Complex Analysis Fall 2007 Homework 4: Solutions 1.5.2. (a) The function f(z) = 3z2+7z+5 is a polynomial so is analytic everywhere with derivative f0(z) = 6z +7. (b) The function f(z) = (2z+3)4 is a composition of polynomials so is analytic everywhere with derivative f0(z) = 8(2z +3)3 (by the chain rule). (c) The function f(z) = (3z ?1)/(3?z) is rational and so is analytic where z 6= 3.

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e3i? 3i ? 2 0! +12i e2i? 2i ? 2 0! = 8 3 ei3? 2 ?1 +6(ei? ?1) = ? 8 3 i? 44 3. Alternative solution Since z2 + 3z is entire, so the integral is path ...

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Math 5120: Complex analysis. Homework 9 Solutions 4.5.3.1.a f(z) = 1 z2 +5z+6 1 (z+2)(z+3) which has • a pole of order 1 at z = ?2 with residue lim z??2(z+2)f(z) = 1 • a

pole of order 1 at z = ?3 with residue lim

Complex Analysis Fall 2007 Homework 4: Solutions 1.5.2. (a) The function f(z) = 3z2+7z+5 is a polynomial so is analytic everywhere with derivative f0(z) = 6z +7. (b) The function f(z) = (2z+3)4 is a composition of polynomials so is analytic everywhere with derivative f0(z) = 8(2z +3)3 (by the chain rule). (c) The function f(z) = (3z ?1)/(3?z) is rational and so is analytic where z 6= 3.

Complex Analysis - Homework Solutions Problem 1: (30) For each of the following cases, draw the curve and compute the integral of falong . In each case, indicate which theorem(s) you use and check all the

necessary assumptions / hypotheses. 1. f(z) = zcos(z) along (t) = t2 + itfor t2[0;1]; Answer: 1 i

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integral is path ...

Complex Analysis HOMEWORK II Solution 1. Compute the limit lim z!1 3iz+ 1 2z 5i Solution: lim z!1 3iz+ 1 2z 5i = lim z!0 3i z + 1 2 z 5i = lim z!0 3i+ z 2 5iz = 3i 2 2. Show that lim z!0 (z z)2 doesn't exist, by rst considering z approaching 0 along real-axis, then along the line y= x. Solution…

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