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### Gamelin Complex Analysis Solutions

Solution If  $f(z) = u(x; y) + iv(x; y)$  is analytic then if  $(z) = v(x; y) + iu(x; y)$  is analytic. Thus  $u$  is a harmonic conjugate of  $v$ . Thus  $u$  is a harmonic conjugate of  $v$ . 57 II.5.3 Dene  $u(z) = \text{Im}(1/z^2)$  for  $z \neq 0$ , and set  $u(0) = 0$ .

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the only complex number which is both real and pure imaginary is 0 itself. We add and multiply complex numbers in the usual fashion: De nition 1.1.2. Let  $a; b; c; d \in \mathbb{R}$ . We de ne complex addition and multiplication as follows:  $(a + ib) + (c + id) = (a + c) + i(b + d)$  &  $(a + ib)(c + id) = ac - bd + i(ad + bc)$ :

### Guide for Gamelin's Complex Analysis - supermath.info

Solution Set  $w = x + iy$ , by formulas on page 30 in CA we have that  $\sin w = \sin(x + iy) = \sin(x) \cos(iy) + \cos(x) \sin(iy) = \sin(x) \cosh(y) + i \cos(x) \sinh(y)$ : If  $j \in \mathbb{R}$   $w_j = jxj < \infty$  because  $\sin w$  is mapped on  $\mathbb{C} \setminus \{1; -1\}$   $[\cos(x) \cosh(y); \cos(x) \sinh(y)]$ ,  $\text{Im}(\sin w) = 0$   $y = 0$   $\sin w = \sin(x)$  and  $-1 < \sin(x) < 1$  for these  $x$ .

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$1 - z + z^2 - z^3 + \dots + (-1)^{n-1} z^{n-1} = 1 - z^n$ . Multiplying through by  $1 - z$  gives.  $1 - z - z + z^2 - z^2 + z^3 - z^3 + \dots + (-1)^{n-1} z^{n-1} - (-1)^{n-1} z^n = 1 - z^n$ . The left-hand. side of the equation is a telescoping. series of which the only terms surviving are 1 and  $-z^n$ . Thus, the equality is apparent.

### Complex Analysis, Gamelin, II.2 Problems and Solutions

COMPLEX ANALYSIS by T.W. Gamelin Springer-Verlag, UTM Series Errata for the second (= third) printing, compiled June 19, 2006 CHAPTER I p.9, l.-7: Change " $e^{i\phi/n}$ " to " $e^{i\phi}$ " p.9, Ex.1, l.2: Change "cartesian" to "Cartesian" (upper case "C")

### COMPLEX ANALYSIS CHAPTER I

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More Than Complex Analysis: (these are a work in progress) Useful Materials and Links: Complex Analysis Lectures of Fall 2015 this is the playlist for the rather standard course I taught in 2015 from Gamelin's text, enjoy. In the Fall 2015 semester we used Gamelin's Complex Analysis as the required text.

### **MATH 331: Complex Analysis**

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analysis. The course goal is to introduce students to the fundamental theory of functions of one complex variable ...

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### **Complex Analysis: Gamelin, Theodore W.: 9780387950693 ...**

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