

**R Fundamental definitions and results**

**R0**  $(x_1 + yi)(x_2 + yi) = (x_1x_2 - y_1y_2) + (x_1y_2 + x_2y_1)i$   
 $|x + yi| = \sqrt{x^2 + y^2}$ ,  $|x + yi| = \sqrt{x^2 + y^2}$ ,  $d(z_1, z_2) = |z_1 - z_2|$

**R1**  $\frac{1}{1-z} = 1 + z + z^2 + z^3 + \dots$  for  $|z| < 1$

**R2**  $e^z = 1 + \frac{z}{1!} + \frac{z^2}{2!} + \frac{z^3}{3!} + \dots$  for any  $z$

**R3** In the neighbourhood of a pole  $z_0$  of order  $k$   
 $f(z) = \frac{a_{-k}}{(z-z_0)^k} + \dots + \frac{a_{-1}}{(z-z_0)} + a_0 + a_1(z-z_0) + \dots$   
 and  $\text{Res}_{z_0} f = a_{-1} = \lim_{z \rightarrow z_0} ((z-z_0)^k f(z))^{(k-1)}$

**R4** Complex integral of  $f: D \rightarrow \mathbb{C}$  along  $\gamma: [a, b] \rightarrow D$  is  
 $\int_{\gamma} f(z) dz = \int_a^b f(\gamma(t)) \gamma'(t) dt$

**R5 Theorem of Residues.** For an open set  $D \subset \mathbb{C}$ :

$f: D \rightarrow \mathbb{C}$  holomorphic function  
 $S$  set of isolated singular points  
 $\gamma$  path homotopic to zero in  $D \setminus S$

$$\int_{\gamma} f(z) dz = 2\pi i \sum_{z \in S} n(z, \gamma) \text{Res}_z f$$

**R6 Lemma 1.** For  $\gamma_r: [0, \beta] \rightarrow \mathbb{C}$ ,  $\gamma_r(t) = re^{it}$   
 $\lim_{r \rightarrow \infty} z f(z) = 0 \Rightarrow \lim_{r \rightarrow \infty} \int_{\gamma_r} f(z) dz = 0$

**R7 Lemma 2 (Jordan).** For  $\gamma_r: [0, \pi] \rightarrow \mathbb{C}$ ,  $\gamma_r(t) = re^{it}$   
 $\lim_{r \rightarrow \infty} f(z) = 0 \Rightarrow \lim_{r \rightarrow \infty} \int_{\gamma_r} f(z) e^{iz} dz = 0$

**A Problems**

**1**  $(1-2i)^2 = ?$ ,  $\frac{1-i}{1+i} = ?$ ,  $e^{-2i} = ?$ ,  $d(1+i, 2-i) = ?$ ,  
 $(z \sin z)' = ?$ ,  $(e^z)' = ?$ ,  $\lim_{z \rightarrow \infty} \left( \frac{z}{z^2} + \frac{1}{z} \right) = ?$ .

**2** Expand in a power series of  $z$  the functions  
 $f_1(z) = e^{z^2}$ ,  $f_2(z) = ze^{z^2}$ ,  $f_3(z) = \frac{1}{1-z^2}$

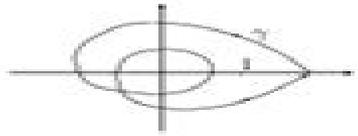
**Solution.**  
 $f_1(z) = 1 + \frac{z^2}{1!} + \frac{z^4}{2!} + \frac{z^6}{3!} + \dots$  for any  $z$ .  
 $f_2(z) = z \left( 1 + \frac{z^2}{1!} + \frac{z^4}{2!} + \frac{z^6}{3!} + \dots \right) = \dots + \frac{z^3}{1!} + \frac{z^5}{2!} + z + \dots$  for  $|z| > 0$ .  
 $f_3(z) = \frac{1}{1-z^2} \left( 1 + z + z^2 + z^3 + \dots \right) = \frac{1}{1-z} + \frac{z}{1-z^2} + \dots$  for  $0 < |z| < 1$ .

**3** Compute the residues of  $f(z) = \frac{1}{z^3(z-1)^2}$   
*Hint.* 0 is a pole of order 3 and  $\pm 1$  are poles of order 2.

**B Problems**

**1** Prove that  $f: \mathbb{C} \rightarrow \mathbb{C}$ ,  $f(z) = 1+z$  is not  $\mathbb{C}$ -differentiable.  
*Hint.* Use the Cauchy-Riemann theorem.

**2** For  $\gamma: [0, \pi] \rightarrow \mathbb{C}$ ,  $\gamma(t) = e^{it}$ , compute  $\int_{\gamma} (z+i) dz$ .  
*Hint.* Use the definition of the complex line integral.



**3** Compute the integral  $\int_{\gamma} \frac{1}{z^2(z-1)} dz$  where  $\gamma$  is the path from the figure above.

**Solution.** By using the theorem of residues, we get  
 $\int_{\gamma} \frac{1}{z^2(z-1)} dz = 2\pi i (2 \text{Res}_0 f + \text{Res}_1 f) = 2\pi i$ .

**4** Compute the residue of  $f(z) = ze^{z^2}$  at the singular point  $z_0 = 0$ .  
*Solution.*  $f(z) = \dots + \frac{z}{1!} + \frac{z^3}{3!} + \dots + 1 + z$  for any  $z \Rightarrow \text{Res}_0 f = \frac{1}{2}$ .

**C Problems**

**1** Compute the residues of  $f(z) = z^2 e^{-z^2}$  at the singular point  $z_0 = 1$ .  
*Hint.*  $f(z) = ((z-1)^2 + 2(z-1) + 1) \left( 1 + \frac{1}{2} \frac{z-1}{1} + \frac{1}{2} \frac{(z-1)^2}{1 \cdot 2} + \frac{1}{6} \frac{(z-1)^3}{1 \cdot 2 \cdot 3} + \dots \right)$ .

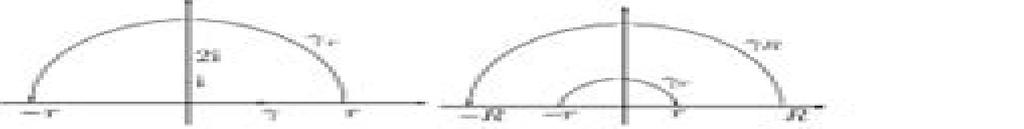
**2** Compute the integrals  $I_1 = \int_0^{2\pi} \frac{1}{2+\cos t} dt$  and  $I_2 = \int_0^{2\pi} \frac{1}{2-\cos t} dt$   
*Solution.* By using the path  $\gamma: [0, 2\pi] \rightarrow \mathbb{C}$ ,  $\gamma(t) = e^{it}$ , we get  
 $I_1 = \int_0^{2\pi} \frac{1}{2+\cos t} dt = \int_0^{2\pi} \frac{1}{2+\frac{z+z^{-1}}{2}} \frac{dz}{iz} = \int_{\gamma} \frac{2}{z^2+4z+2} dz$   
 $= -i \int_{\gamma} \frac{1}{z-\frac{2-\sqrt{2}}{2}} dz = -i \int_{\gamma} \frac{2}{z-\frac{2-\sqrt{2}}{2}} dz = 2\pi \text{Res}_{\frac{2-\sqrt{2}}{2}} \frac{2}{z-\frac{2-\sqrt{2}}{2}} = \frac{2\pi}{\sqrt{2}}$

**3** Compute the integrals  $\int_0^{\infty} \frac{1}{1+x^2} dx$  and  $\int_0^{\infty} \frac{1}{1+x^2+2x} dx$   
*Solution.* The integral is convergent: at infinity  $\frac{1}{1+x^2} \sim \frac{1}{x^2}$ .  
 By using  $\gamma_r: [0, \pi] \rightarrow \mathbb{C}$ ,  $\gamma_r(t) = re^{it}$  and  $f(z) = \frac{1}{1+z^2}$ , we get  
 $\int_{\gamma_r} f(z) dz + \int_{-r}^r f(x) dx = 2\pi i (\text{Res}_i f + \text{Res}_{-i} f)$ , whence  
 $\lim_{r \rightarrow \infty} \int_{\gamma_r} f(z) dz + \int_{-\infty}^{\infty} f(x) dx = 2\pi i (\text{Res}_i f + \text{Res}_{-i} f)$ .

Since  $|z f(z)| = \frac{|z|}{|1+z^2|} = \frac{|z|}{|z^2-1|+1} \leq \frac{|z|}{|z|^2-|z|+1} \leq \frac{|z|}{|z|^2-|z|+1}$ ,  
 we have  $\lim_{r \rightarrow \infty} \int_{\gamma_r} f(z) dz = 0$  and in view of lemma 1,  $\lim_{r \rightarrow \infty} \int_{\gamma_r} f(z) dz = 0$ .  
 Consequently,  $\int_0^{\infty} f(x) dx = \pi i (\text{Res}_i f + \text{Res}_{-i} f) = \frac{\pi}{2}$ .

**4** Prove that  $\int_0^{\infty} \frac{\sin x}{x} dx = \frac{\pi}{2}$  (Poisson's integral).

**Solution.** Let  $0 < r < R$  and  $\gamma_R, \gamma_r: [0, \pi] \rightarrow \mathbb{C}$ ,  $\gamma_R(t) = Re^{it}$ ,  $\gamma_r(t) = re^{it}$ .  
 From the residue theorem (right hand side of fig.) it follows the relation  
 $\int_{\gamma_R} \frac{e^{iz}}{z} dz + \int_{-\infty}^{-R} \frac{e^{iz}}{z} dx + \int_{\gamma_r} \frac{e^{iz}}{z} dz + \int_r^{\infty} \frac{e^{iz}}{z} dx = 0$ , that is  
 $\int_{\gamma_R} \frac{e^{iz}}{z} dz + \int_{\gamma_r} \frac{e^{iz}}{z} dz + \int_r^R \frac{e^{iz}-e^{-iz}}{z} dx + 2i \int_r^R \frac{\sin x}{x} dx = 0$ ,  
 $\int_{\gamma_R} \frac{e^{iz}}{z} dz + \int_{\gamma_r} \frac{e^{iz}}{z} dz + \int_r^R \frac{e^{iz}-e^{-iz}}{z} dx + 2i \int_r^R \frac{\sin x}{x} dx = 0$ .



If  $g$  is an antiderivative of  $f(z) = \frac{e^z - e^{-z}}{z}$ , by using  $\int_{\gamma_r} \frac{1}{z} dz = -\pi i$ , we get  
 $\int_{\gamma_R} \frac{e^{iz}}{z} dz - \pi i + (g(r) - g(-r)) + 2i \int_r^R \frac{\sin x}{x} dx = 0$ .

But, in view of Jordan's lemma  $\lim_{R \rightarrow \infty} \int_{\gamma_R} \frac{e^{iz}}{z} dz = 0$ ,  
 and for  $R \rightarrow \infty$  and  $r \rightarrow 0$  we get  $2i \int_0^{\infty} \frac{\sin x}{x} dx = \pi i$ .

**5** Find the holomorphic function  $f: \mathbb{C} \rightarrow \mathbb{C}$  with  $\frac{\partial f}{\partial x}(x+yi) = 2xy - 2x$ ,  $f(i) = 0$ .

**6** For  $z_0 \neq 0$ , expand  $f: \mathbb{C}^* \rightarrow \mathbb{C}$ ,  $f(z) = \frac{1}{z}$  in a power series of  $(z-z_0)$ .  
*Solution.* We have  
 $f(z) = \frac{1}{z_0 + (z-z_0)} = \frac{1}{z_0} \frac{1}{1 + \frac{z-z_0}{z_0}} = \frac{1}{z_0} \left( 1 - \frac{1}{z_0} (z-z_0) + \frac{1}{z_0^2} (z-z_0)^2 - \dots \right)$ ,  
 for  $|z-z_0| < |z_0|$ .

$f(z) = \frac{1}{z_0 + (z-z_0)} = \frac{1}{z_0} \frac{1}{1 - \frac{z-z_0}{z_0}} = \frac{1}{z_0} \left( 1 + \frac{1}{z_0} (z-z_0) + \frac{1}{z_0^2} (z-z_0)^2 + \dots \right)$ ,  
 for  $|z-z_0| > |z_0|$ .

**7** Expand in a power series of  $(z-i)$  the functions:  
 $f_1(z) = \frac{1}{z}$ ,  $f_2(z) = \frac{1}{z^2}$ ,  $f_3(z) = \frac{1}{z} + \frac{1}{z^2}$ .

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