

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

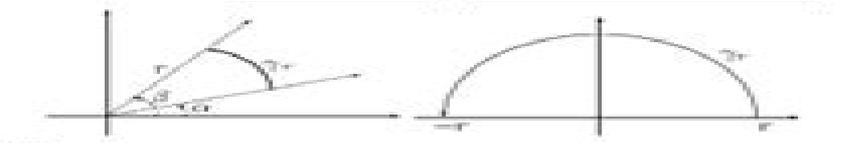
R3 In the neighbourhood of a pole z_0 of order k
 $f(z) = \frac{a_{-k}}{(z-z_0)^k} + \dots + \frac{a_{-1}}{(z-z_0)} + a_0 + a_1(z-z_0) + \dots$
 and $\text{Res}_{z_0} f = a_{-1} = \lim_{z \rightarrow z_0} ((z-z_0)^k f(z))^{(k-1)}$

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
 γ path homotopic to zero in $D \setminus S$
 $\Rightarrow \int_{\gamma} f(z) dz = 2\pi i \sum_{z \in S} n(z, \gamma) \text{Res}_z f$

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

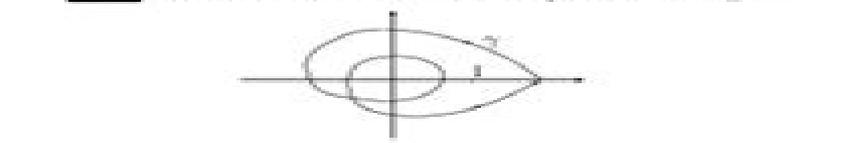
2 Expand in a power series of z the functions
 $f_1(z) = e^{z^2}$, $f_2(z) = ze^{z^2}$, $f_3(z) = \frac{1}{1+z^2}$
 Solution:
 $f_1(z) = 1 + \frac{z^2}{1!} + \frac{z^4}{2!} + \frac{z^6}{3!} + \dots$ for any z .
 $f_2(z) = z \left(1 + \frac{z^2}{1!} + \frac{z^4}{2!} + \frac{z^6}{3!} + \dots \right) = \dots + \frac{z^3}{1!} + \frac{z^5}{2!} + z + \dots$ for $|z| > 0$.
 $f_3(z) = \frac{1}{2} \left(1 + z + z^2 + z^3 + \dots \right) + \frac{1}{2} \left(1 - z + z^2 - z^3 + \dots \right) = \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + 1 + z + \dots$ for $0 < |z| < 1$.

3 Compute the residues of $f(z) = \frac{1}{z(z-1)(z-2)^2}$
 Hint: 0 is a pole of order 3 and ± 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 $\int_{\gamma} \frac{1}{z(z-1)(z-2)} dz$ where γ is the path from the figure above.
 Solution: By using the theorem of residues, we get
 $\int_{\gamma} \frac{1}{z(z-1)(z-2)} dz = 2\pi i (2 \text{Res}_0 f + \text{Res}_1 f) = 2\pi i$.

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

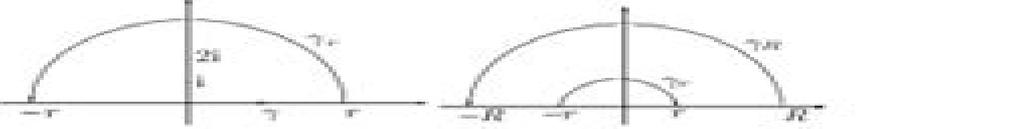
C Problems

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

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

3 Compute the integrals $\int_0^{\infty} \frac{1}{1+x^2} dx$ and $\int_0^{\infty} \frac{1}{1+x^2} dx$
 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
 $\int_{\gamma_r} f(z) dz = \int_0^{\pi} f(re^{it}) r e^{it} dt = 2\pi i (\text{Res}_i f + \text{Res}_{-i} f)$, 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 $|z f(z)| = \frac{|z|}{|1+z^2|} = \frac{|z|}{|z^2 - 1 + 1 + z^2|} = \frac{|z|}{|z^2 - 1| + |z^2|} \leq \frac{|z|}{|z|^2 - 1 + |z|^2} = \frac{1}{|z| - 1/|z|}$,
 we have $\lim_{r \rightarrow \infty} z f(z) = 0$ 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
 $\int_{\gamma_R} \frac{e^{iz}}{z} dz + \int_{\gamma_r} \frac{e^{iz}}{z} dz + \int_r^R \frac{e^{ix}}{x} dx + 2i \int_r^R \frac{\sin x}{x} dx = 0$,
 $\int_{\gamma_R} \frac{e^{iz}}{z} dz + \int_{\gamma_r} \frac{e^{iz}}{z} dz + \int_r^R \frac{e^{ix}}{x} dx + 2i \int_r^R \frac{\sin x}{x} dx = 0$.

If g is an antiderivative of $f(z) = \frac{e^{iz}}{z}$, 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 $\frac{\partial f(x+yi)}{\partial x} = 2xy - 2x$, $f(i) = 0$.

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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Christian Drosten



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