

R Fundamental definitions and results

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

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
 $f_1(z) = e^{z^2}$, $f_2(z) = ze^{z^2}$, $f_3(z) = \frac{1}{1+z^2}$

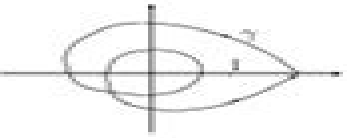
Solution.
 $f_1(z) = 1 + \frac{z^2}{1!} + \frac{z^4}{2!} + \frac{z^6}{3!} + \dots$ for any z .
 $f_2(z) = z \left(1 + \frac{z^2}{1!} + \frac{z^4}{2!} + \frac{z^6}{3!} + \dots \right) = \dots + \frac{z^3}{1!} + \frac{z^5}{2!} + z + \dots$ for $|z| > 0$.
 $f_3(z) = \frac{1}{2} \left(1 + z + z^2 + z^3 +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

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
 $I_1 = \int_0^{2\pi} \frac{1}{2+\cos t} dt = \int_0^{2\pi} \frac{1}{2+\frac{z+z^{-1}}{2}} dz = \int_{\gamma} \frac{2}{z^2+4z+2} dz = 2\pi \text{Res}_{z_1} f = \frac{2\pi}{\sqrt{3}}$

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
 $\int_{\gamma_r} f(z) dz = \int_0^{\pi} f(x) dx = 2\pi i (\text{Res}_i f + \text{Res}_{-i} f)$, 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 $|z f(z)| = \frac{|z|^{2k}}{|1+z^2|} = \frac{|z|^{2k}}{|z|^2+1} \leq \frac{|z|^{2k}}{|z|^2-1}$, 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
 $\int_{\gamma_R} \frac{e^{iz}}{z} dz + \int_{\gamma_r} \frac{e^{iz}}{z} dz + \int_r^R \frac{e^{ix}-e^{-ix}}{x} dx + 2i \int_r^R \frac{\sin x}{x} dx = 0$,
 $\int_{\gamma_R} \frac{e^{iz}}{z} dz + \int_{\gamma_r} \frac{e^{iz}}{z} dz + \int_r^R \frac{e^{ix}-e^{-ix}}{x} dx + 2i \int_r^R \frac{\sin x}{x} dx = 0$.

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 $\frac{\partial}{\partial x} f(x+yi) = 2xy - 2x$, $f(i) = 0$.

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
 $f(z) = \frac{1}{z_0+z-z_0} = \frac{1}{z_0} \frac{1}{1-\frac{z-z_0}{z_0}} = \frac{1}{z_0} \left(1 - \frac{z-z_0}{z_0} + \frac{(z-z_0)^2}{z_0^2} - \dots \right)$,
 for $|z-z_0| < |z_0|$.
 $f(z) = \frac{1}{z_0+z-z_0} = \frac{1}{z_0} \frac{1}{1+\frac{z-z_0}{z_0}} = \frac{1}{z_0} \left(1 - \frac{z-z_0}{z_0} + \frac{(z-z_0)^2}{z_0^2} - \dots \right)$,
 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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web sugar skulls monarch butterflies marigolds and traditional paper banners papel picado are all symbols of the día de los muertos courtesy of the smithsonian latino center 3 it s a celebration of life not death ancient mesoamericans believed that death was part of the journey of life

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though related the two annual events differ greatly in traditions and tone whereas

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web spirits of the adults at midnight of the following day november 2nd the celebrations shift to honor the lives of the departed adults the night is filled with laughter and fun memories much like the night before however the ofrendas take on a more adult like theme with tequila pan de muerto mezcal pulque and jars of atole

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