

dilation gives the required map. In total

$$w = \frac{1}{\rho^2}(z^2 - a^2) = \frac{z^2}{\rho^2} - \frac{a^2}{\rho^2}.$$

3.4.2.7. Map the outside of the ellipse $(x/a)^2 + (y/b)^2 = 1$ onto $|w| < 1$ with preservation of symmetries.

4. COMPLEX INTEGRATION

4.1. The Fundamental Theorems.

4.1.3. Line Integrals as Functions of Area.

4.1.3.1. Compute

$$\int_{\gamma} x \, dz$$

where γ is the directed line segment from 0 to $1 + i$.

Solution: Let $z(t) = (1 + i)t = t + it$. Then $z(t)$ parameterizes γ where $z(0) = 0$ and $z(1) = 1 + i$. Thus,

$$\int_{\gamma} x \, dz = \int_0^1 x(t) z'(t) \, dt = \int_0^1 t(1 + i) \, dt = (1 + i) \frac{t^2}{2} \Big|_0^1 = \frac{1}{2} + \frac{1}{2}i.$$

As an aside, recall that if $F(z)$ is analytic and $F(z) = U(x, y) + iV(x, y)$ then

$$F'(z) = \frac{\partial U}{\partial x} + \frac{\partial V}{\partial x}i = \frac{\partial V}{\partial y} - i \frac{\partial U}{\partial y}.$$

Since F is analytic, U and V are harmonic functions. Thus,

$$\begin{aligned} 0 &= \frac{\partial^2 U}{\partial x^2} + \frac{\partial^2 U}{\partial y^2} = \frac{\partial}{\partial x} \operatorname{Re}(F'(z)) - \frac{\partial}{\partial y} \operatorname{Im}(F'(z)) \\ 0 &= \frac{\partial^2 V}{\partial x^2} + \frac{\partial^2 V}{\partial y^2} = \frac{\partial}{\partial x} \operatorname{Im}(F'(z)) + \frac{\partial}{\partial y} \operatorname{Re}(F'(z)) \end{aligned}$$

Let $f(z) = u(x, y) + iv(x, y)$ where $f(z) = F'(z)$. Then, the above can be written as

$$\frac{\partial u}{\partial x} - \frac{\partial v}{\partial y} = 0 \quad \frac{\partial v}{\partial x} + \frac{\partial u}{\partial y} = 0.$$

In this problem, we have $f(z) = x$ so that $u(x, y) = x$ and $v(x, y) = 0$. The first equation fails, so that f is not the derivative of an analytic function. Indeed, considering the circle $z(t) = 1/2 + 1/\sqrt{2}e^{it}$ gives a different value of the integral, so it is path dependent.

4.1.3.2. Compute

$$\int_{|z|=r} x \, dz$$

for the positive sense of the circle, in two ways: first, by use of a parameter, and second, by observing that $x = 1/2(z + \bar{z}) = 1/2(z + r^2/\bar{z})$ on the circle.

Solution: As seen in the previous problem, $f(z) = x$ is not the derivative of an analytic function so that this contour integral is not necessarily zero. Letting $z(t) = re^{it}$ we have $z'(t) = ire^{it}$ and thus

$$\begin{aligned} \int_{|z|=r} x \, dz &= \int_0^{2\pi} x(t) z'(t) \, dt = \int_0^{2\pi} (r \cos t)(-r \sin t + ir \cos t) \, dt = \int_0^{2\pi} -r^2 \cos t \sin t + ir^2 \cos^2 t \, dt \\ &= \int_0^{2\pi} -\frac{r^2}{2} \sin(2t) + \frac{ir^2}{2} + \frac{ir^2}{2} \cos(2t) \, dt = \int_0^{2\pi} \frac{ir^2}{2} = \pi r^2 i \end{aligned}$$

Now recall that if C is the circle with center a and radius ρ then

$$\int_C \frac{1}{z - a} \, dz = 2\pi i.$$

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