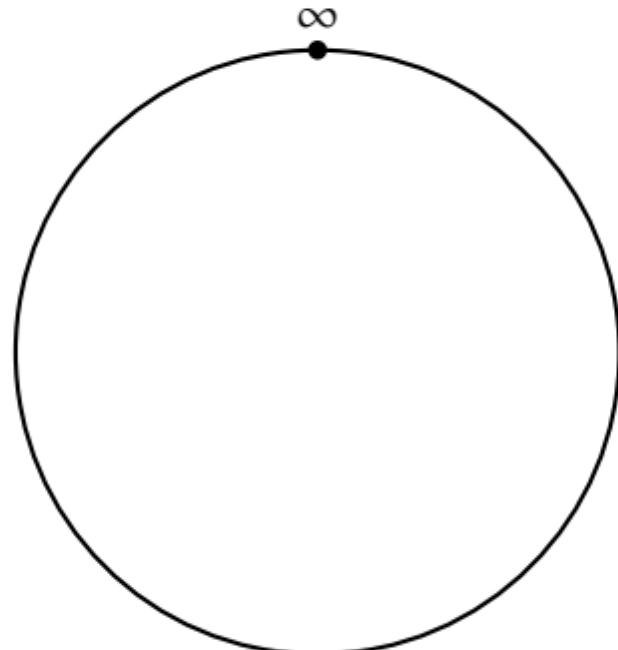
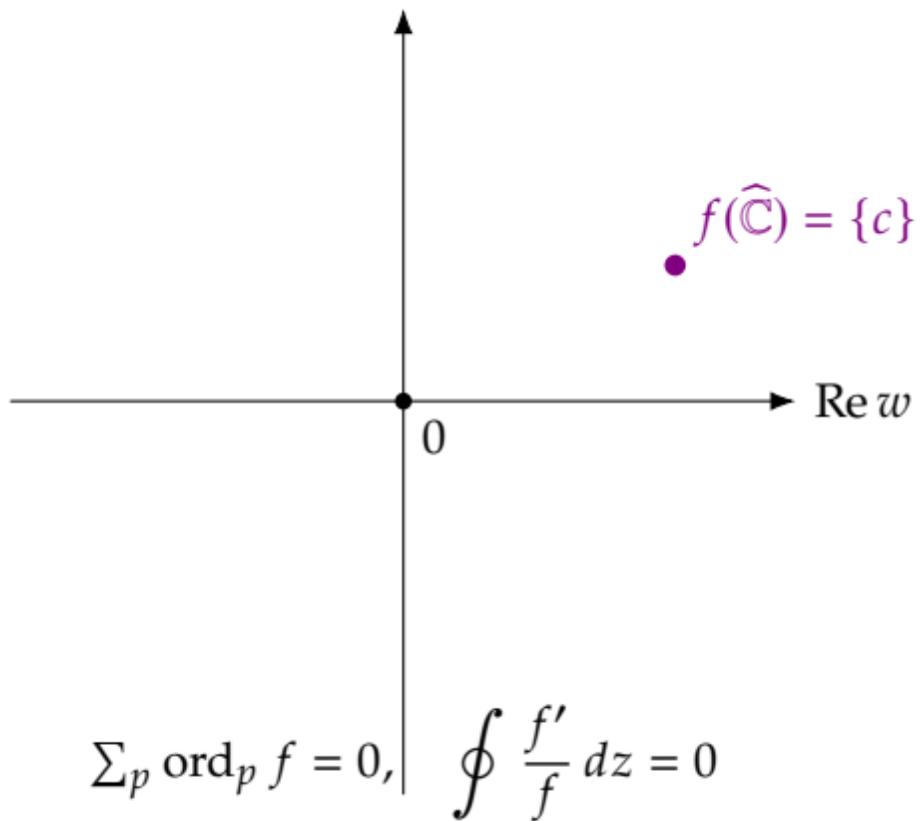


Riemann sphere $\widehat{\mathbb{C}}$ (domain)



$f(z) \equiv c \neq 0 \Rightarrow$ no zeros, no poles

$w = f(z)$ -plane (image)



$$\sum_p \text{ord}_p f = 0, \quad \oint \frac{f'}{f} dz = 0$$