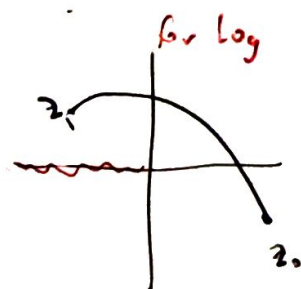
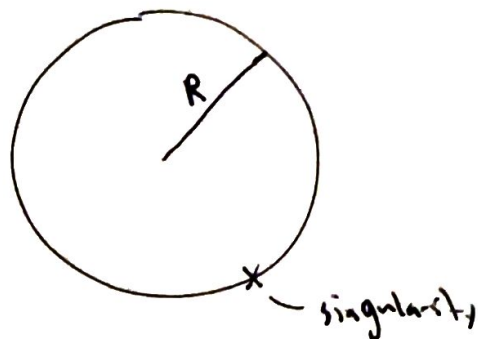
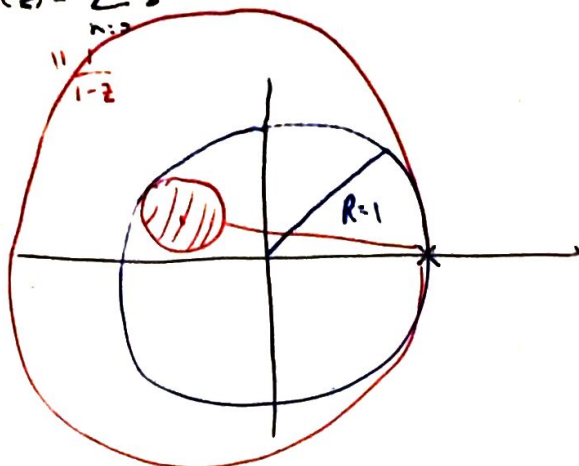


analytic continuation

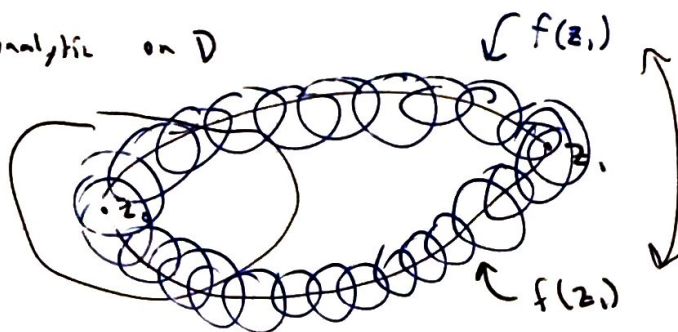
$$f(z) = \sum_{n=0}^{\infty} a_n (z - z_0)^n$$

ex: $f(z) = \sum_{n=0}^{\infty} z^n$



f analytic on D

D



are these equal from the two continuations

Monodromy

Let A be a simply connected domain (no holes)

Let f be analytic at $z_0 \in A$

If f can be analytically continued along

any arc connecting z_0 to $z \in A$
 then the continuation is single-valued

