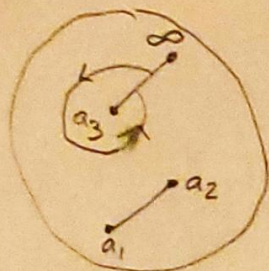
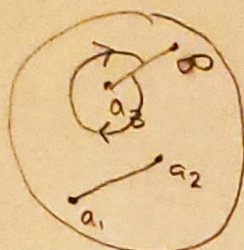


$n=3$:

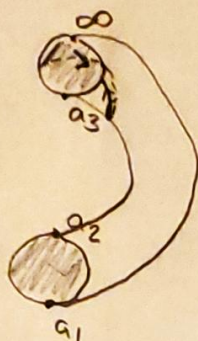
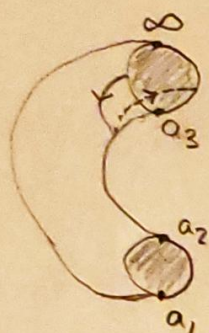


Z_1

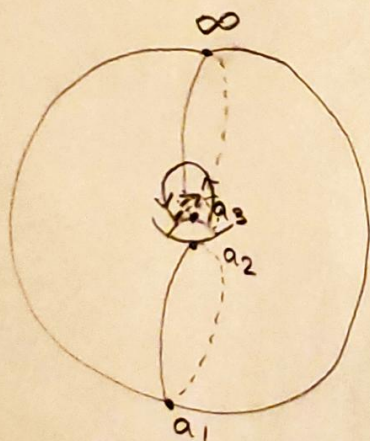


Z_2

Open the branch cuts and deform the spheres by pulling out the holes until the spheres resemble half tori.



Because the values are the same on both sides, we can glue them together to get the Riemann surface



which, of course, is a torus.