MATH 351: RIEMANN SURFACES AND DESSINS D'ENFANTS
HOMEWORK #18

Problem 18.1. Let $f : X \to \mathbb{P}^1$ be a nonconstant morphism of Riemann surfaces that is ramified above exactly two points. Show that $X \cong \mathbb{P}^1$ and $f(z) = z^d$ where $\deg(f) = d \geq 2$.