

$$P_1(z) = \prod (z - a_i)$$

$$P_2(z) = \prod (z - b_i)$$

$$\Rightarrow \prod P_1(b_i) = \pm \prod P_2(a_i)$$

Γ a curve given by $P(x, y) = 0$

(f, g) meromorphic near $a \in \Gamma$

$$f = C_1 u^{n_1} + \dots$$

$$g = C_2 u^{n_2}$$

u local parameter
near $a \in \Gamma$ s.t.

$$u(a) = 0$$

$$\{f, g\}_a = (-1)^{n_1 + n_2 + n_1 n_2} C_2^{n_1} C_1^{-n_2}$$

Then Weil says

$$\prod_{a \in \Gamma} \{f, g\}_a = 1$$

~~$\neq 1$~~
only at 0's
and poles.