$\Rightarrow$ $f : V \longrightarrow V'$

$[X_0, X_1, X_2] \longmapsto [p_0(X_0, X_1, X_2), p_1(X_0, X_1, X_2), p_2(X_0, X_1, X_2)]$

where p_0, p_1 & p_2 are homogeneous polynomials of the same degree d.

$\Rightarrow$ Consider $V' \cap H_0' = \{[0, *, *] \in V\} = \{p_0 = 0\}$.

$\Rightarrow$ $\exists$ $a_0, a_1, a_2 \in \mathbb{C}$ s.t $H = \{a_0 X_0 + a_1 X_1 + a_2 X_2 = 0\}$

$H \cap V \xrightarrow{f} V' \cap H_0'$ one to one, onto. by ⊛.

$\Rightarrow$ Since $a_0 X_0 + a_1 X_1 + a_2 X_2$ is irreducible,

$p_0 = (a_0 X_0 + a_1 X_1 + a_2 X_2)^d h_0$, $h_0 \neq 0$ on V

Similarly, we get $p_1 = h_1 (b_0 X_0 + b_1 X_1 + b_2 X_2)^d$, $p_2 = (c_0 X_0 + c_1 X_1 + c_2 X_2)^d h_2$, $h_1 \neq 0 \neq h_2$

$\Rightarrow$ $\dfrac{p_0}{p_1} = \dfrac{h_0 (a_0 X_0 + \cdot \quad)^d}{h_1 (b_0 X_0 + \quad)^d}$ is meromorphic functions on V.

$\dfrac{p_2}{p_1} =$ " on V.

$\Rightarrow$ They have the same divisors as $\dfrac{(a_0 X_0 + \cdot \cdot +)^d}{(b_0 X_0 + \cdot \; +)^d}$ & □.

$\Rightarrow$ $\dfrac{p_0}{p_1} = \lambda_0 \dfrac{(a_0 X_0 + \quad)^d}{(b_0 X_0 + \quad)^d}$, $\dfrac{p_2}{p_1} = \lambda_2 \dfrac{(c_0 X_0 \quad)^d}{(b_0 X_0 \quad)^d}$

$\Rightarrow$ $f : V \longrightarrow V'$

$[X_0, X_1, X_2] \longmapsto [\lambda_0 (a_0 X_0 + a_1 X_1 + a_2 X_2)^d, (b_0 X_0 + b_1 X_1 + b_2 X_2)^d, \lambda_2 (c_0 X_0 +)^d]$