Let this analytic function on U be k.

$\Rightarrow \overset{\text{For}}{\forall} (k=0) \cap U \ni {}^{\forall}(a_{11}/a_{00}, \cdots)$,

$a_{00}X_0^2 + \cdots + a_{12}X_1X_2 = 0$ is tangent to C in W.

$\Rightarrow$ Since C is compact, $\exists$ a finite number of holomorphic function in $a_{11}/a_{00}, \cdots a_{12}/a_{00}$.

Thus we showed that, in $\mathbb{P}^5$ (= the complete linear system of conics in $\mathbb{P}^2$) − point (= $[a^0_{00}, a^0_{11}, \cdots]$, $(a^0_{00}X_0^2 + \cdots + a^0_{12}X_1X_2 = 0) = C$), $V_C - [a^0_{00}, \cdots]$ is analytic $\overset{\text{sub}}{\vee}$variety. $V_C - [a^0_{00}, \cdots a^0_{12}]$ is analytic subvariety in $\mathbb{P}^5 - [a^0_{00}, \cdots a^\prime_{12}]$.

$\Rightarrow$ By Levi Extension Theorem (II), since $\overline{V_C - [a^0_{00} \cdots]} = V_C$, V_C is analytic subvariety in $\mathbb{P}^5$.

By the argument above, V_C is hypersurface in $\mathbb{P}^5$.

" In other words, for each $w \in C$, we have

open sets W_w, U_w. $W_w \ni w$, $U_w \ni (a^\prime_{11}/a^\prime_{00}, \cdots a^\prime_{12}/a^\prime_{00})$

holomorphic functions h_w, k_w.

Since C is compact, we have a finite number of holomorphic functions k_{w_i}'s $= k_i$'s defined on $\bigcap_{i=1}^{l} U_{w_i} =: \tilde{U}$

Thus $\tilde{U} \cap (\tilde{k} = \prod_{i=1}^{l} k_i = 0)$ is the set of $(a_{11}/a_{00}, \cdots a_{12}/a_{00})$ containing $(a^\prime_{11}/a^\prime_{00}, \cdots a^\prime_{12}/a^\prime_{00})$ s. t, for such all $(a_{11}/a_{00} \cdots)$'s

$a_{00}X_0^2 + \cdots + a_{12}X_1X_2 = 0$ is tangent to C. "

If we could show that for a generic choice of