

A: The generic element of a pencil is smooth away from the base locus of the pencil.

B: The generic element of a linear system V is smooth away from the base locus of the system V .

Question: $A \Rightarrow B$?

\bar{B} : The generic element of a linear system V has a singular point away from the base locus of the system.

C: The generic element of a generic pencil in V has a singular point away from the base locus of the system V .

$\Rightarrow C \neq \bar{A}$ (A is false), for

\bar{C} : The generic element of a generic pencil in V is smooth away from the base locus of the system V .

I thought, the authors claimed $\bar{B} \Rightarrow \bar{A}$, which implies $A \Rightarrow B$. They did not.

Anyway, we can show that by modifying the proof on P137 ~ P138, for a generic pencil in V , the generic element of the pencil is smooth away from the base locus of the system V .