**Esercizio 1.** Let $\varphi(z) \in L(A)$ be a consistent formula. Prove that, if $a \in \operatorname{acl}(A, b)$ for every $b \models \varphi(z)$, then $a \in \operatorname{acl}(A)$. Prove the same claim with a type $p(z) \subseteq L(A)$ for $\varphi(z)$.

**Esercizio 2.** Prove that the fhe following is a sufficient condition for weak elimination of imaginaries

$\natural$ $\mathcal{D} \subseteq \mathcal{U}^{|x|}$ is definable both over $A$ and over $B$, then it is definable over $A \cap B$.