

$$\dot{V}^* = \{H \sqsubseteq_{\max} \dot{V}\}$$

$$p \underset{\text{reg}}{\in} X$$

$$X_p \sqsubset H = H_p \Leftrightarrow p \underset{\text{sing}}{\in} X \cap H$$

$$\underline{X \cap H}_p = \underline{X}_p \cap \underline{H}_p$$

$$\underline{X}_p \sqsubset H = \underline{H}_p \Rightarrow \dim X \cap H < \dim X = \dim \underline{X}_p = \dim \underline{X}_p \cap \underline{H}_p = \dim \underline{X \cap H}_p \Rightarrow p \underset{\text{sing}}{\in} X \cap H$$

$$\underline{X}_p \not\subseteq \underline{H}_p \Rightarrow \dim \underline{X}_p \cap \underline{H}_p \leq \dim \underline{X}_p - 1 = \dim X - 1 = \dim X \cap H \Rightarrow p \underset{\text{reg}}{\in} X \cap H$$

$$X^\vee = \frac{H \in \dot{V}^*}{X_p \sqsubset H}$$