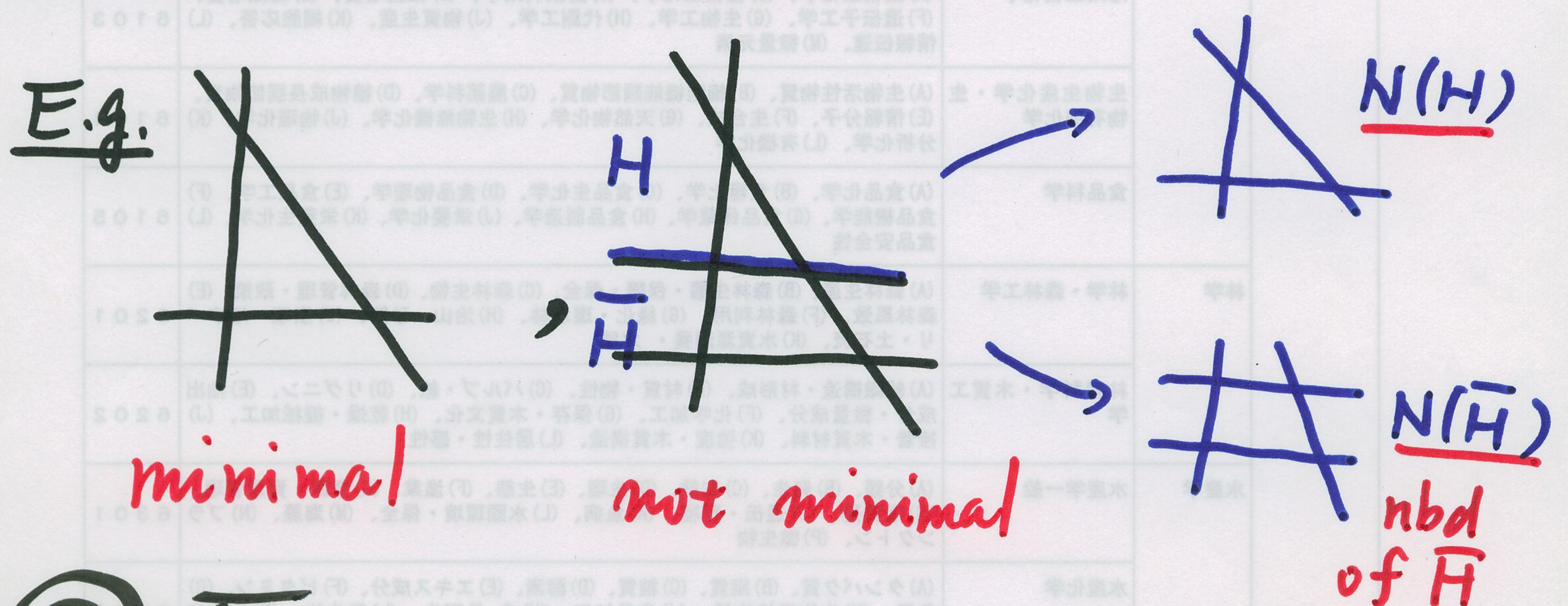


Outline of Proof

① $\Gamma = (\{P\}, E_P)$ ~~X~~ = Γ

② Γ is a *minimal*



③ Γ is not minimal.

$$\mathbb{Z}[\text{triangle}] \rightarrow \mathbb{Z}[\text{triangle with } H] \oplus \mathbb{Z}[\text{triangle with } \bar{H}] \rightarrow \mathbb{Z}[\text{triangle with } H, \bar{H}]$$

N(L)

$$\downarrow \quad \downarrow \cong \quad \downarrow \cong$$

$$H_T^*(\text{triangle}) \rightarrow H_T^*(\text{triangle with } H) \oplus H_T^*(\text{triangle with } \bar{H}) \rightarrow H_T^*(\text{triangle with } H, \bar{H})$$

(Mayer-Vietoris of hypertonegraph)