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Lemma 1 [*p:term*] $\mathbf{T} p$.

Proof. $\mathbf{T} p$ by **GAP**. \square

Lemma 2 [*p:succes*] $\mathbf{S} p$.

Proof. \perp by **GAP**. \square

Lemma 3 [*q:succes*] $\mathbf{S} q$.

Proof. \perp by **GAP**. \square

Lemma 4 [*p:faux_implique_tout*] $\mathbf{F} p \rightarrow a = b$.

Proof. \perp by **GAP**. \square

Lemma 5 [*r:succes*] $\mathbf{S} r$.

Proof. \perp by **GAP**. \square

Lemma 6 [*r:term*] $\mathbf{T} r$.

Proof. \perp by **GAP**. \square

Lemma 7 [*s:succes*] $\mathbf{S} s$.

Proof. \perp by **GAP**. \square

Lemma 8 [*s:term*] $\mathbf{T} s$.

Proof. \perp by **GAP**. \square

Lemma 9 [*t:succes*] $\mathbf{S} t$.

Proof. \perp by **GAP**. \square

Lemma 10 [*u:total*] $\mathbf{T} u \rightarrow \mathbf{S} u \vee \mathbf{F} u$.

Proof. \perp by **GAP**. \square

Lemma 11 [*v:succes*] $\mathbf{S} v$.

Proof. \perp by **GAP**. \square

Lemma 12 [*w:term*] $\mathbf{T} w$.

Proof. \perp by **GAP**. \square