$$f(a^*, b) = T \wedge f(a^*, b)$$

$$\leq id_A(a^*, a) \wedge f(a^*, b)$$

$$\leq \bigvee id_A(a^*, a') \wedge f(a'^*, b)$$

 $=(\mathrm{id}_{\mathbf{A}}\circ f)(a^*,\mathbf{b}).$ 

 $a' \in \mathbf{A}$