

weak-antecedent-surjection^{11,40}

$$Q \leftarrow \leftarrow = f = = P \equiv_{\text{def}} Q \leftarrow = = f = = P \ \& \ (\forall e: \{e: E \mid Q(e)\} . \exists e': \{e: E \mid P(e)\} . (f(e') = e))$$

clarification:

$$\begin{aligned} & \text{weak-antecedent-surjection}(es; P; Q; f) \\ \equiv_{\text{def}} & \text{weak-antecedent-function}(es; P; Q; f) \\ & \ \& \ (\forall e: \{e: \text{es-E}(es) \mid Q(e)\} . \exists e': \{e: \text{es-E}(es) \mid P(e)\} . (f(e') = e \in \text{es-E}(es))) \end{aligned}$$