

t1\_dickson

(TMbnhfJ3uTPEsKoXP16vorwKi9uEFNuqayq)

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Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $k9\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Let  $k16\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k10\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1\_relat\_1 X1) \wedge (v1\_funct\_1 X1)) \Rightarrow ((k9\_xtuple\_0 \\ & X1 = k1\_tarski X0) \Rightarrow (k10\_xtuple\_0 X1 = k1\_tarski (k1\_funct\_1 X1 X0))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (v1\_relat\_1 X2) \Rightarrow (((k9\_xtuple\_0 \\ & X2 = k1\_tarski X0) \wedge (k10\_xtuple\_0 X2 = k1\_tarski X1)) \Rightarrow (X2 = k16\_funcop\_1 \\ & X0 X1)) \end{aligned} \quad (2)$$

**Theorem 1**

$$\begin{aligned} & \forall X0. ((v1\_relat\_1 X0) \wedge (v1\_funct\_1 X0)) \Rightarrow (\forall X1. (k9\_xtuple\_0 \\ & X0 = k1\_tarski X1) \Rightarrow (X0 = k16\_funcop\_1 X1 (k1\_funct\_1 X0 X1))) \end{aligned}$$