

t24\_cohsp\_1 (TMYAxjUPVzc-  
qAiSo5QbD79GKvbYwBiZdCJE)

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Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k5\_cohsp\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_finset\_1 : \iota \Rightarrow o$  be given. Let  $k9\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. (k4\_tarski X0 X1 = k4\_tarski X2 X3) \Rightarrow ((X0 = X2) \wedge (X1 = X3)) \quad (1)$$

Assume the following.

$$\forall X0. ((v1\_relat\_1 X0) \wedge (v1\_funct\_1 X0)) \Rightarrow (\forall X1. (X1 = k5\_cohsp\_1 X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (\exists X3. (v1\_finset\_1 X3) \wedge (\exists X4. (X2 = k4\_tarski X3 X4) \wedge ((X3 \in k9\_xtuple\_0 X0) \wedge (X4 \in k1\_funct\_1 X0 X3))))))) \quad (2)$$

**Theorem 1**

$$\forall X0. ((v1\_relat\_1 X0) \wedge (v1\_funct\_1 X0)) \Rightarrow (\forall X1. \forall X2. (k4\_tarski X1 X2 \in k5\_cohsp\_1 X0) \Leftrightarrow ((v1\_finset\_1 X1) \wedge ((X1 \in k9\_xtuple\_0 X0) \wedge (X2 \in k1\_funct\_1 X0 X1))))$$