

# t33\_funct\_3 (TMW- ComBbWT6Bw73JpjbX6YiwtY8V81cZy9b)

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Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v2\_funct\_1 : \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k9\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k8\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_funct\_3 : \iota \Rightarrow \iota$  be given. Let  $k7\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_funct\_3 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.((v1\_relat\_1 X0) \wedge (v1\_funct\_1 X0)) \Rightarrow (\forall X1.(v2\_funct\_1 X0) \Rightarrow (r1\_tarski (k7\_relat\_1 (k1\_funct\_3 X0) X1) (k8\_relat\_1 (k3\_funct\_3 X0) X1))) \quad (1)$$

Assume the following.

$$\forall X0.((v1\_relat\_1 X0) \wedge (v1\_funct\_1 X0)) \Rightarrow (\forall X1.(r1\_tarski X1 (k1\_zfmisc\_1 (k9\_xtuple\_0 X0))) \Rightarrow (r1\_tarski (k8\_relat\_1 (k3\_funct\_3 X0) X1) (k7\_relat\_1 (k1\_funct\_3 X0) X1))) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (X0 = X1) \Leftrightarrow ((r1\_tarski X0 X1) \wedge (r1\_tarski X1 X0)) \quad (3)$$

## Theorem 1

$$\forall X0.((v1\_relat\_1 X0) \wedge (v1\_funct\_1 X0)) \Rightarrow (\forall X1.((v2\_funct\_1 X0) \wedge (r1\_tarski X1 (k1\_zfmisc\_1 (k9\_xtuple\_0 X0)))) \Rightarrow (k8\_relat\_1 (k3\_funct\_3 X0) X1 = k7\_relat\_1 (k1\_funct\_3 X0) X1))$$