

t24\_toprealc  
(TMRvL4sA6N69q1aduLsv8ThnGFdMUxpjnX8)

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Let  $v1\_valued\_2 : \iota \Rightarrow o$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_valued\_0 : \iota \Rightarrow o$  be given. Let  $k30\_valued\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_toprealc : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(v1\_valued\_2 X0) \Rightarrow (k2\_toprealc (k2\_toprealc X0) = X0) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_valued\_2 X0) \Rightarrow (v1\_valued\_2 (k2\_toprealc X0)) \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1\_valued\_2 X0) \Rightarrow (\forall X1.(v1\_valued\_2 X1) \Rightarrow (( \\ X1 = k2\_toprealc X0) \Leftrightarrow (\forall X2.((v1\_relat\_1 X2) \wedge ((v1\_funct\_1 \\ X2) \wedge (v1\_valued\_0 X2)))) \Rightarrow ((k30\_valued\_1 X2 \in X1) \Leftrightarrow (X2 \in X0)))) \end{aligned} \quad (3)$$

**Theorem 1**

$$\forall X0.(v1\_valued\_2 X0) \Rightarrow (\forall X1.((v1\_relat\_1 X1) \wedge ((v1\_funct\_1 X1) \wedge (v1\_valued\_0 X1))) \Rightarrow ((k30\_valued\_1 X1 \in X0) \Leftrightarrow (X1 \in k2\_toprealc X0)))$$