

t57_partfun1 (TMYS-
FXUG3tBuEhFz5Nu7Mutd3cuwKXLFp6G)

October 27, 2020

Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow (\forall X1.((\\ v1_relat_1 X1) \wedge (v1_funct_1 X1)) \Rightarrow ((r1_partfun1 X0 X1) \Leftrightarrow (\exists X2. \\ ((v1_relat_1 X2) \wedge (v1_funct_1 X2)) \wedge ((r1_tarski X0 X2) \wedge (r1_tarski \\ X1 X2)))))) \end{aligned} \quad (1)$$

Theorem 1

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow (\forall X1.((\\ v1_relat_1 X1) \wedge (v1_funct_1 X1)) \Rightarrow (\forall X2.((v1_relat_1 X2) \wedge \\ (v1_funct_1 X2)) \Rightarrow (((r1_tarski X0 X2) \wedge (r1_tarski X1 X2)) \Rightarrow (r1_partfun1 \\ X0 X1)))))) \end{aligned}$$