

t20_yellow17

(TMT4wKYNTytuhmhhukHbvPtcisac7TPobXE)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4_waybel_3 : \iota \Rightarrow o$ be given. Let $v1_waybel18 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_waybel18 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_struct_0 : \iota \Rightarrow \iota$ be given. Let $k3_waybel18 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k4_waybel18 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_waybel18 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((r1_tarski X0 X1) \wedge (r1_tarski X1 X2)) \Rightarrow (r1_tarski X0 X2) \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. ((v1_relat_1 X1) \wedge \\ (v4_relat_1 X1 X0) \wedge ((v1_funct_1 X1) \wedge ((v1_partfun1 X1 X0) \wedge ((v4_waybel_3 \\ X1) \wedge (v1_waybel18 X1)))))) \Rightarrow (\forall X2. (m1_subset_1 X2 X0) \Rightarrow (\\ \forall X3. (m1_subset_1 X3 (u1_struct_0 (k4_waybel18 X0 X1 X2))) \Rightarrow \\ (\forall X4. (m1_subset_1 X4 (k1_zfmisc_1 (k2_waybel18 X0 X1))) \Rightarrow \\ (((r1_tarski (k8_relset_1 (u1_struct_0 (k3_waybel18 X0 X1)) (\\ u1_struct_0 (k4_waybel18 X0 X1 X2)) (k6_waybel18 X0 X1 X2) (k1_tarski \\ X3)) (k3_tarski X4)) \wedge (\forall X5. \neg (X5 \in k2_waybel18 X0 X1) \wedge ((X5 \in \\ X4) \wedge (r1_tarski (k8_relset_1 (u1_struct_0 (k3_waybel18 X0 X1)) \\ (u1_struct_0 (k4_waybel18 X0 X1 X2)) (k6_waybel18 X0 X1 X2) (k1_tarski \\ X3)) X5)))) \Rightarrow (r1_tarski (k2_struct_0 (k3_waybel18 X0 X1)) (k3_tarski \\ X4)))))) \end{aligned} \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\forall X1.((v1_relat_1 X1) \wedge (\\ & (v4_relat_1 X1 X0) \wedge ((v1_funct_1 X1) \wedge ((v1_partfun1 X1 X0) \wedge ((v4_waybel_3 \\ & X1) \wedge (v1_waybel18 X1)))))) \Rightarrow (\forall X2.(m1_subset_1 X2 X0) \Rightarrow (\\ & \forall X3.(m1_subset_1 X3 (k1_zfmisc_1 (k2_waybel18 X0 X1))) \Rightarrow \\ & ((\forall X4.((v1_finset_1 X4) \wedge (m1_subset_1 X4 (k1_zfmisc_1 \\ & X3))) \Rightarrow (\neg r1_tarski (k2_struct_0 (k3_waybel18 X0 X1)) (k3_tarski \\ & X4))) \Rightarrow (\forall X4.(m1_subset_1 X4 (u1_struct_0 (k4_waybel18 \\ & X0 X1 X2))) \Rightarrow (\forall X5.((v1_finset_1 X5) \wedge (m1_subset_1 X5 (k1_zfmisc_1 \\ & X3))) \Rightarrow (\neg(r1_tarski (k8_relset_1 (u1_struct_0 (k3_waybel18 X0 \\ & X1)) (u1_struct_0 (k4_waybel18 X0 X1 X2)) (k6_waybel18 X0 X1 X2) \\ & (k1_tarski X4)) (k3_tarski X5)) \wedge (\forall X6. \neg (X6 \in k2_waybel18 \\ & X0 X1) \wedge ((X6 \in X5) \wedge (r1_tarski (k8_relset_1 (u1_struct_0 (k3_waybel18 \\ & X0 X1)) (u1_struct_0 (k4_waybel18 X0 X1 X2)) (k6_waybel18 X0 X1 X2) \\ & (k1_tarski X4)) X6)))))))))) \end{aligned}$$