

t25_metric_2 (TMErDPCuYbUXqrsGvcK- ZDm5vea6WLaYtqhT)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v6_metric_1 : \iota \Rightarrow o$ be given. Let $v8_metric_1 : \iota \Rightarrow o$ be given. Let $v9_metric_1 : \iota \Rightarrow o$ be given. Let $l1_metric_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_metric_2 : \iota \Rightarrow \iota$ be given. Let $k2_metric_2 : \iota \Rightarrow \iota$ be given. Let $r4_metric_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0. ((\neg v2_struct_0 X0) \wedge (l1_metric_1 X0)) \Rightarrow (k5_metric_2 \\
 X0 = & \text{ReplSep (toset } (\lambda X1 : \iota. m1_subset_1 X1 k1_numbers)) (\lambda X1 : \\
 & \iota. \exists X2. (m1_subset_1 X2 (k2_metric_2 X0)) \wedge (\exists X3. \\
 (m1_subset_1 X3 (k2_metric_2 X0)) \wedge (r4_metric_2 X0 X2 X3 X1))) & \quad (1) \\
 & \quad (\lambda X1 : \iota. X1))
 \end{aligned}$$

Theorem 1

$$\begin{aligned}
 & \forall X0. ((\neg v2_struct_0 X0) \wedge ((v6_metric_1 X0) \wedge ((v8_metric_1 \\
 X0) \wedge ((v9_metric_1 X0) \wedge (l1_metric_1 X0)))))) \Rightarrow & (\forall X1. (m1_subset_1 \\
 X1 k1_numbers) \Rightarrow ((X1 \in k5_metric_2 X0) \Leftrightarrow (\exists X2. (m1_subset_1 \\
 X2 (k2_metric_2 X0)) \wedge (\exists X3. (m1_subset_1 X3 (k2_metric_2 \\
 X0)) \wedge (r4_metric_2 X0 X2 X3 X1))))))
 \end{aligned}$$