

## t26\_metric\_2

(TMHRRc4rNqaMMsGr5G3vZQHheWiActN2mfM)

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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  $k2\_metric\_2 : \iota \Rightarrow \iota$  be given. Let  $k6\_metric\_2 : \iota \Rightarrow \iota$  be given. Let  $k1\_numbers : \iota$  be given. Let  $r4\_metric\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned}
 & \forall X0. ((\neg v2\_struct\_0 X0) \wedge (l1\_metric\_1 X0)) \Rightarrow (k6\_metric\_2 \\
 & X0 = ReplSep (toset (\lambda X1 : \iota. m1\_subset\_1 X1 (k2\_metric\_2 X0))) \\
 & (\lambda X1 : \iota. \exists X2. (m1\_subset\_1 X2 (k2\_metric\_2 X0)) \wedge (\exists X3. \\
 & (m1\_subset\_1 X3 k1\_numbers) \wedge (r4\_metric\_2 X0 X1 X2 X3))) (\lambda X1 : \\
 & \iota. X1)) \tag{1}
 \end{aligned}$$

### Theorem 1

$$\begin{aligned}
 & \forall X0. (((\neg v2\_struct\_0 X0) \wedge ((v6\_metric\_1 X0) \wedge ((v8\_metric\_1 \\
 & X0) \wedge ((v9\_metric\_1 X0) \wedge (l1\_metric\_1 X0)))))) \Rightarrow (\forall X1. (m1\_subset\_1 \\
 & X1 (k2\_metric\_2 X0)) \Rightarrow ((X1 \in k6\_metric\_2 X0) \Leftrightarrow (\exists X2. (m1\_subset\_1 \\
 & X2 (k2\_metric\_2 X0)) \wedge (\exists X3. (m1\_subset\_1 X3 k1\_numbers) \wedge \\
 & (r4\_metric\_2 X0 X1 X2 X3))))))
 \end{aligned}$$