

t15\_xxreal\_3 (TM-  
cQm5LxWBNDdRWiMR3dtU5b2zper2YK5nd)

October 27, 2020

Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $k3\_xxreal\_3 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k1\_xxreal\_3 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_xxreal\_3 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v1\_xxreal\_0 X1) \Rightarrow ((k1\_xxreal\_3 X0 X1 = k6\_numbers) \Rightarrow (X0 = k2\_xxreal\_3 X1))) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0 X0) \Rightarrow (k1\_xxreal\_3 X0 (k2\_xxreal\_3 X0) = k6\_numbers) \quad (2)$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0 X0) \Rightarrow (k1\_xxreal\_3 X0 k6\_numbers = X0) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xxreal\_0 X0) \wedge (v1\_xxreal\_0 X1)) \Rightarrow (v1\_xxreal\_0 (k3\_xxreal\_3 X0 X1)) \quad (4)$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v1\_xxreal\_0 X1) \Rightarrow (k3\_xxreal\_3 X0 X1 = k1\_xxreal\_3 X0 (k2\_xxreal\_3 X1))) \quad (5)$$

**Theorem 1**  $\forall X0.(v1\_xxreal\_0 X0) \Rightarrow (k3\_xxreal\_3 X0 k6\_numbers = X0)$ .