

l88_xxreal_3

(TMP8AaKB5hRmcu77RhiZ5JUcAQReBXyAVBR)

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Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $k4_xxreal_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $v3_xxreal_0 : \iota \Rightarrow o$ be given. Let $k1_xxreal_0 : \iota$ be given. Let $k2_xxreal_0 : \iota$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k3_xcmplx_0 X0 k6_numbers = k6_numbers) \quad (2)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (3)$$

Assume the following.

$$\exists X0.(v1_xboole_0 X0) \wedge ((v1_xcmplx_0 X0) \wedge ((v1_xreal_0 X0) \wedge (v1_xreal_0 X0))) \quad (4)$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \quad (5)$$

Assume the following.

$$\begin{aligned}
& \forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow (\forall X2. \\
& (v1_xxreal_0 X2) \Rightarrow (((v1_xreal_0 X0) \wedge (v1_xreal_0 X1)) \Rightarrow ((X2 = \\
& k4_xxreal_3 X0 X1) \Leftrightarrow (\exists X3.(v1_xcmplx_0 X3) \wedge (\exists X4. \\
& (v1_xcmplx_0 X4) \wedge ((X0 = X3) \wedge ((X1 = X4) \wedge (X2 = k3_xcmplx_0 X3 X4)))))) \wedge \\
& ((\neg(\neg(v1_xreal_0 X0) \wedge (v1_xreal_0 X1)) \wedge (((v2_xxreal_0 X0) \wedge \\
& (v2_xxreal_0 X1)) \vee ((v3_xxreal_0 X0) \wedge (v3_xxreal_0 X1)))) \wedge (\neg \\
& X2 = k4_xxreal_3 X0 X1) \Leftrightarrow (X2 = k1_xxreal_0))) \wedge ((\neg(\neg(v1_xreal_0 \\
& X0) \wedge (v1_xreal_0 X1)) \wedge (((v2_xxreal_0 X0) \wedge (v3_xxreal_0 X1)) \vee \\
& ((v3_xxreal_0 X0) \wedge (v2_xxreal_0 X1)))) \wedge (\neg(X2 = k4_xxreal_3 X0 X1) \Leftrightarrow \\
& (X2 = k2_xxreal_0))) \wedge (\neg(\neg(v1_xreal_0 X0) \wedge (v1_xreal_0 X1)) \wedge \\
& ((\neg(\neg(v1_xreal_0 X0) \wedge (v1_xreal_0 X1)) \wedge (((v2_xxreal_0 X0) \wedge (\\
& v2_xxreal_0 X1)) \vee ((v3_xxreal_0 X0) \wedge (v3_xxreal_0 X1)))) \wedge ((\neg \\
& (\neg(v1_xreal_0 X0) \wedge (v1_xreal_0 X1)) \wedge (((v2_xxreal_0 X0) \wedge (v3_xxreal_0 \\
& X1)) \vee ((v3_xxreal_0 X0) \wedge (v2_xxreal_0 X1)))) \wedge (\neg(X2 = k4_xxreal_3 \\
& X0 X1) \Leftrightarrow (X2 = k6_numbers)))))))))
\end{aligned} \tag{6}$$

Assume the following.

$$\forall X0.((v1_xboole_0 X0) \wedge (v1_xxreal_0 X0)) \Rightarrow ((v1_xxreal_0 X0) \wedge ((\neg v2_xxreal_0 X0) \wedge (\neg v3_xxreal_0 X0))) \tag{7}$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (v1_xcmplx_0 X0) \tag{8}$$

Theorem 1 $\forall X0.(v1_xxreal_0 X0) \Rightarrow (k4_xxreal_3 X0 \ k6_numbers = k6_numbers).$