

l152_jordan (TMRan- mzpt3vRxxmvMD7UzgXKyK213bKEPuie)

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Let $r1_xreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k17_euclid : \iota \Rightarrow \iota$ be given. Let $k19_euclid : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_real_1 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $np_3 : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k1_seq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k19_sin_cos : \iota$ be given. Let $k10_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k32_sin_cos : \iota$ be given. Let $np_2 : \iota$ be given. Let $k16_sin_cos : \iota$ be given. Let $k7_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $k17_sin_cos : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k31_sin_cos : \iota$ be given. Assume the following.

$$\begin{aligned}
 & (k1_seq_1 \ k19_sin_cos \ (k10_real_1 \ k32_sin_cos \ np_2) = k6_numbers) \wedge \\
 & \quad ((k1_seq_1 \ k16_sin_cos \ (k10_real_1 \ k32_sin_cos \ np_2) = np_1) \wedge \\
 & \quad ((k1_seq_1 \ k19_sin_cos \ k32_sin_cos = k1_real_1 \ np_1) \wedge ((k1_seq_1 \ k19_sin_cos \\
 & \quad \quad k16_sin_cos \ k32_sin_cos = k6_numbers) \wedge ((k1_seq_1 \ k19_sin_cos \\
 & \quad \quad (k7_real_1 \ k32_sin_cos \ (k10_real_1 \ k32_sin_cos \ np_2)) = k6_numbers) \wedge \\
 & \quad \quad ((k1_seq_1 \ k16_sin_cos \ (k7_real_1 \ k32_sin_cos \ (k10_real_1 \ k32_sin_cos \\
 & \quad \quad \quad np_2)) = k1_real_1 \ np_1) \wedge ((k1_seq_1 \ k19_sin_cos \ (k8_real_1 \\
 & \quad \quad \quad np_2 \ k32_sin_cos) = np_1) \wedge (k1_seq_1 \ k16_sin_cos \ (k8_real_1 \\
 & \quad \quad \quad np_2 \ k32_sin_cos) = k6_numbers))))))
 \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. (v1_xreal_0 \ X0) \Rightarrow (r1_xreal_0 \ (k1_real_1 \ np_1) \ (k17_sin_cos \ X0)) \tag{2}$$

Assume the following.

$$k6_numbers = k1_xboole_0 \tag{3}$$

Assume the following.

$$k32_sin_cos = k31_sin_cos \tag{4}$$

Assume the following.

$$k17_euclid \ (k19_euclid \ k6_numbers \ np_3) = k6_numbers \tag{5}$$

Assume the following.

$$k17_euclid (k19_euclid (k1_real_1 np_1) np_3) = k1_real_1 np_1 \quad (6)$$

Assume the following.

$$v1_xreal_0 k31_sin_cos \quad (7)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (k17_sin_cos X0 = k1_seq_1 k16_sin_cos X0) \quad (8)$$

Theorem 1

$$r1_xxreal_0 (k17_euclid (k19_euclid (k1_real_1 np_1) np_3)) \\ (k17_euclid (k19_euclid k6_numbers np_3))$$