

t8_menelaus (TMJQLmyzToEeDjP- Wwi3sGSJCDjDysdXkUDv)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k15_euclid : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k4_euclid_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $r1_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k32_sin_cos : \iota$ be given. Let $k2_numbers : \iota$ be given. Let $k4_complex2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_euclid_3 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k2_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ & \quad X1 k2_numbers) \Rightarrow (\forall X2.(m1_subset_1 X2 k2_numbers) \Rightarrow (\neg(X0 \neq \\ & \quad X1) \wedge ((X0 \neq X2) \wedge ((X1 \neq X2) \wedge ((k4_complex2 X0 X1 X2 = k6_numbers) \wedge \\ & \quad (\neg(k4_complex2 X1 X2 X0 = k6_numbers) \wedge (k4_complex2 X2 X0 X1 = k32_sin_cos)) \wedge \\ & \quad (\neg(k4_complex2 X1 X2 X0 = k32_sin_cos) \wedge (k4_complex2 X2 X0 X1 = k6_numbers)))))))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k2_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ & \quad X1 k2_numbers) \Rightarrow (\forall X2.(m1_subset_1 X2 k2_numbers) \Rightarrow ((k4_complex2 \\ & \quad X0 X1 X2 = k32_sin_cos) \Rightarrow (k4_complex2 X2 X1 X0 = k32_sin_cos)))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\ & (\forall X1.(m1_subset_1 X1 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\ & \quad ((k2_euclid_3 X0 = k2_euclid_3 X1) \Rightarrow (X0 = X1))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\ & \quad (m1_subset_1 (k2_euclid_3 X0) k2_numbers) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.(r1_zfmisc_1 X0 X1 X2) \Leftrightarrow ((X0 \neq \\ & \quad X1) \wedge ((X0 \neq X2) \wedge (X1 \neq X2))) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m1_subset_1 X0 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\
& (\forall X1.(m1_subset_1 X1 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\
& (\forall X2.(m1_subset_1 X2 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\
& (k4_euclid_3 X0 X1 X2 = k4_complex2 (k2_euclid_3 X0) (k2_euclid_3 \\
& X1) (k2_euclid_3 X2)))) \tag{6}
\end{aligned}$$

Theorem 1

$$\begin{aligned}
& \forall X0.(m1_subset_1 X0 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\
& (\forall X1.(m1_subset_1 X1 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\
& (\forall X2.(m1_subset_1 X2 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\
& (\neg(k4_euclid_3 X0 X1 X2 = k6_numbers) \wedge ((r1_zfmisc_1 X0 X1 X2) \wedge \\
& (k4_euclid_3 X1 X2 X0 \neq k32_sin_cos) \wedge (k4_euclid_3 X1 X0 X2 \neq k32_sin_cos))))))
\end{aligned}$$