

t18_euclid_8
(TMavoSK6vJTReGPeEBS2ny6XrdReo33bLK9)

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Let $k5_euclid_8 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_euclid_8 : \iota$ be given. Let $k2_euclid_8 : \iota$ be given. Let $k3_euclid_8 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_0 : \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $k11_binop_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_binop_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_euclid_8 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v3_membered : \iota \Rightarrow o$ be given. Assume the following.

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

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_1) \wedge (m2_subset_1 np_1 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_1 k5_numbers) \wedge (m1_subset_1 np_1 k1_numbers)) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & (m2_subset_1 np_0 k1_numbers k5_numbers) \wedge ((m1_subset_1 np_0 \\ & k5_numbers) \wedge (m1_subset_1 np_0 k1_numbers)) \end{aligned} \quad (3)$$

Assume the following.

$$v1_xboole_0 np_0 \quad (4)$$

Assume the following.

$$k3_xcmplx_0 np_1 np_1 = np_1 \quad (5)$$

Assume the following.

$$k3_xcmplx_0 np_1 np_0 = np_0 \quad (6)$$

Assume the following.

$$k3_xcmplx_0 np_0 np_1 = np_0 \quad (7)$$

Assume the following.

$$k3_xcmplx_0 \ np_0 \ np_0 = np_0 \tag{8}$$

Assume the following.

$$k6_xcmplx_0 \ np_1 \ np_0 = np_1 \tag{9}$$

Assume the following.

$$k6_xcmplx_0 \ np_0 \ np_0 = np_0 \tag{10}$$

Assume the following.

$$k6_numbers = k1_xboole_0 \tag{11}$$

Assume the following.

$$\forall X0. \forall X1. ((v1_xreal_0 \ X0) \wedge (v1_xreal_0 \ X1)) \Rightarrow (k11_binop_2 \ X0 \ X1 = k3_xcmplx_0 \ X0 \ X1) \tag{12}$$

Assume the following.

$$\forall X0. \forall X1. ((v1_xreal_0 \ X0) \wedge (v1_xreal_0 \ X1)) \Rightarrow (k10_binop_2 \ X0 \ X1 = k6_xcmplx_0 \ X0 \ X1) \tag{13}$$

Assume the following.

$$\begin{aligned} & \forall X0. (m1_subset_1 \ X0 \ k1_numbers) \Rightarrow (\forall X1. (m1_subset_1 \\ & \quad X1 \ k1_numbers) \Rightarrow (\forall X2. (m1_subset_1 \ X2 \ k1_numbers) \Rightarrow (\forall X3. \\ & \quad (m1_subset_1 \ X3 \ k1_numbers) \Rightarrow (\forall X4. (m1_subset_1 \ X4 \ k1_numbers) \Rightarrow \\ & \quad (\forall X5. (m1_subset_1 \ X5 \ k1_numbers) \Rightarrow (k5_euclid_8 \ (k1_euclid_8 \\ & \quad X0 \ X1 \ X2) \ (k1_euclid_8 \ X3 \ X4 \ X5) = k1_euclid_8 \ (k10_binop_2 \ (k11_binop_2 \\ & \quad X1 \ X5) \ (k11_binop_2 \ X2 \ X4)) \ (k10_binop_2 \ (k11_binop_2 \ X2 \ X3) \ (k11_binop_2 \\ & \quad X0 \ X5)) \ (k10_binop_2 \ (k11_binop_2 \ X0 \ X4) \ (k11_binop_2 \ X1 \ X3))))))))) \end{aligned} \tag{14}$$

Assume the following.

$$v3_membered \ k1_numbers \tag{15}$$

Assume the following.

$$k4_euclid_8 = k1_euclid_8 \ k6_numbers \ k6_numbers \ np_1 \tag{16}$$

Assume the following.

$$k3_euclid_8 = k1_euclid_8 \ k6_numbers \ np_1 \ k6_numbers \tag{17}$$

Assume the following.

$$k2_euclid_8 = k1_euclid_8 \ np_1 \ k6_numbers \ k6_numbers \tag{18}$$

Assume the following.

$$\forall X0. (v3_membered \ X0) \Rightarrow (\forall X1. (m1_subset_1 \ X1 \ X0) \Rightarrow (v1_xreal_0 \ X1)) \tag{19}$$

Theorem 1 $k5_euclid_8 \ k4_euclid_8 \ k2_euclid_8 = k3_euclid_8.$