

t15_substut1 (TMMjNmQYtPzXJi- hqwx6wNP7NUPG3xskZHsC)

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Let $m1_qc_lang1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k16_substut1 : \iota \Rightarrow \iota$ be given. Let $k20_substut1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v5_substut1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k27_substut1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. ((m1_qc_lang1 X0) \wedge (m1_subset_1 X1 (k16_substut1 X0))) \Rightarrow (m1_subset_1 (k20_substut1 X0 X1) (k16_substut1 X0)) \quad (1)$$

Assume the following.

$$\forall X0. (m1_qc_lang1 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 (k16_substut1 X0)) \Rightarrow ((v5_substut1 X1 X0) \Rightarrow (\forall X2. (m1_subset_1 X2 (k16_substut1 X0)) \Rightarrow ((X2 = k27_substut1 X0 X1) \Leftrightarrow (X1 = k20_substut1 X0 X2)))))) \quad (2)$$

Assume the following.

$$\forall X0. (m1_qc_lang1 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 (k16_substut1 X0)) \Rightarrow ((v5_substut1 X1 X0) \Leftrightarrow (\exists X2. (m1_subset_1 X2 (k16_substut1 X0)) \wedge (X1 = k20_substut1 X0 X2)))))) \quad (3)$$

Theorem 1

$$\forall X0. (m1_qc_lang1 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 (k16_substut1 X0)) \Rightarrow (\forall X2. (m1_subset_1 X2 (k16_substut1 X0)) \Rightarrow ((k20_substut1 X0 X1 = k20_substut1 X0 X2) \Rightarrow (X1 = X2))))))$$