

l55_descip_1
(TMQRF5Vz8yE8WmGHaS1T1kVymh51icLydq4)

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Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_64 : \iota$ be given. Let $k2_finseq_1 : \iota \Rightarrow \iota$ be given. Let $v1_descip_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m2_finseq_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_finseq_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $np_2 : \iota$ be given. Let $np_3 : \iota$ be given. Let $np_4 : \iota$ be given. Let $np_5 : \iota$ be given. Let $np_6 : \iota$ be given. Let $np_7 : \iota$ be given. Let $np_8 : \iota$ be given. Let $np_9 : \iota$ be given. Let $np_10 : \iota$ be given. Let $np_11 : \iota$ be given. Let $np_12 : \iota$ be given. Let $np_13 : \iota$ be given. Let $np_14 : \iota$ be given. Let $np_15 : \iota$ be given. Let $np_16 : \iota$ be given. Let $np_17 : \iota$ be given. Let $np_18 : \iota$ be given. Let $np_19 : \iota$ be given. Let $np_20 : \iota$ be given. Let $np_21 : \iota$ be given. Let $np_22 : \iota$ be given. Let $np_23 : \iota$ be given. Let $np_24 : \iota$ be given. Let $np_25 : \iota$ be given. Let $np_26 : \iota$ be given. Let $np_27 : \iota$ be given. Let $np_28 : \iota$ be given. Let $np_29 : \iota$ be given. Let $np_30 : \iota$ be given. Let $np_31 : \iota$ be given. Let $np_32 : \iota$ be given. Let $np_33 : \iota$ be given. Let $np_34 : \iota$ be given. Let $np_35 : \iota$ be given. Let $np_36 : \iota$ be given. Let $np_37 : \iota$ be given. Let $np_38 : \iota$ be given. Let $np_39 : \iota$ be given. Let $np_40 : \iota$ be given. Let $np_41 : \iota$ be given. Let $np_42 : \iota$ be given. Let $np_43 : \iota$ be given. Let $np_44 : \iota$ be given. Let $np_45 : \iota$ be given. Let $np_46 : \iota$ be given. Let $np_47 : \iota$ be given. Let $np_48 : \iota$ be given. Let $np_49 : \iota$ be given. Let $np_50 : \iota$ be given. Let $np_51 : \iota$ be given. Let $np_52 : \iota$ be given. Let $np_53 : \iota$ be given. Let $np_54 : \iota$ be given. Let $np_55 : \iota$ be given. Let $np_56 : \iota$ be given. Let $np_57 : \iota$ be given. Let $np_58 : \iota$ be given. Let $np_59 : \iota$ be given. Let $np_60 : \iota$ be given. Let $np_61 : \iota$ be given. Let $np_62 : \iota$ be given. Let $np_63 : \iota$ be given. Let $k1_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k3_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $np_0 : \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_finseq_2 : \iota \Rightarrow \iota \Rightarrow o$ be

given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

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

Assume the following.

$$\begin{aligned} & \forall X0.((v7_ordinal1 X0) \wedge (\neg v1_xboole_0 X0)) \Rightarrow (\forall X1. \\ & ((v1_funct_1 X1) \wedge ((v1_funct_2 X1 X0 (k2_finseq_1 X0)) \wedge ((v1_descip_1 \\ & X1 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 (k2_finseq_1 \\ & X0)))))) \Rightarrow (\forall X2.(v7_ordinal1 X2) \Rightarrow ((\neg r1_xxreal_0 X0 X2) \Rightarrow \\ & ((k1_funct_1 X1 X2 = k1_nat_1 X2 np_1) \wedge (X2 \in k1_relset_1 X0 X1)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.((v1_relat_1 X1) \wedge (v1_funct_1 X1)) \Rightarrow (\forall X2. \\ & ((v1_relat_1 X2) \wedge (v1_funct_1 X2)) \Rightarrow ((X0 \in k9_xtuple_0 X1) \Rightarrow (k1_funct_1 \\ & (k3_relat_1 X1 X2) X0 = k1_funct_1 X2 (k1_funct_1 X1 X0)))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_9) \wedge (m2_subset_1 np_9 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_9 k5_numbers) \wedge (m1_subset_1 np_9 k1_numbers)) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_8) \wedge (m2_subset_1 np_8 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_8 k5_numbers) \wedge (m1_subset_1 np_8 k1_numbers)) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_7) \wedge (m2_subset_1 np_7 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_7 k5_numbers) \wedge (m1_subset_1 np_7 k1_numbers)) \end{aligned} \quad (6)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_6) \wedge (m2_subset_1 np_6 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_6 k5_numbers) \wedge (m1_subset_1 np_6 k1_numbers)) \end{aligned} \quad (7)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_64) \wedge (m2_subset_1 np_64 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_64 k5_numbers) \wedge (m1_subset_1 np_64 k1_numbers)) \end{aligned} \quad (8)$$

Assume the following.

$$\neg v1_xboole_0 np_64 \quad (9)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_63) \wedge (m2_subset_1 np_63 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_63 k5_numbers) \wedge (m1_subset_1 np_63 k1_numbers)) \end{aligned} \quad (10)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_62) \wedge (m2_subset_1 \ np_62 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_62 \ k5_numbers) \wedge (m1_subset_1 \ np_62 \ k1_numbers)) \end{aligned} \quad (11)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_61) \wedge (m2_subset_1 \ np_61 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_61 \ k5_numbers) \wedge (m1_subset_1 \ np_61 \ k1_numbers)) \end{aligned} \quad (12)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_60) \wedge (m2_subset_1 \ np_60 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_60 \ k5_numbers) \wedge (m1_subset_1 \ np_60 \ k1_numbers)) \end{aligned} \quad (13)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_5) \wedge (m2_subset_1 \ np_5 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_5 \ k5_numbers) \wedge (m1_subset_1 \ np_5 \ k1_numbers)) \end{aligned} \quad (14)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_59) \wedge (m2_subset_1 \ np_59 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_59 \ k5_numbers) \wedge (m1_subset_1 \ np_59 \ k1_numbers)) \end{aligned} \quad (15)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_58) \wedge (m2_subset_1 \ np_58 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_58 \ k5_numbers) \wedge (m1_subset_1 \ np_58 \ k1_numbers)) \end{aligned} \quad (16)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_57) \wedge (m2_subset_1 \ np_57 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_57 \ k5_numbers) \wedge (m1_subset_1 \ np_57 \ k1_numbers)) \end{aligned} \quad (17)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_56) \wedge (m2_subset_1 \ np_56 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_56 \ k5_numbers) \wedge (m1_subset_1 \ np_56 \ k1_numbers)) \end{aligned} \quad (18)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_55) \wedge (m2_subset_1 \ np_55 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_55 \ k5_numbers) \wedge (m1_subset_1 \ np_55 \ k1_numbers)) \end{aligned} \quad (19)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_54) \wedge (m2_subset_1 \ np_54 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_54 \ k5_numbers) \wedge (m1_subset_1 \ np_54 \ k1_numbers)) \end{aligned} \quad (20)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_53) \wedge (m2_subset_1 \ np_53 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_53 \ k5_numbers) \wedge (m1_subset_1 \ np_53 \ k1_numbers)) \end{aligned} \quad (21)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_52) \wedge (m2_subset_1 \ np_52 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_52 \ k5_numbers) \wedge (m1_subset_1 \ np_52 \ k1_numbers)) \end{aligned} \quad (22)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_51) \wedge (m2_subset_1 \ np_51 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_51 \ k5_numbers) \wedge (m1_subset_1 \ np_51 \ k1_numbers)) \end{aligned} \quad (23)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_50) \wedge (m2_subset_1 \ np_50 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_50 \ k5_numbers) \wedge (m1_subset_1 \ np_50 \ k1_numbers)) \end{aligned} \quad (24)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_4) \wedge (m2_subset_1 \ np_4 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_4 \ k5_numbers) \wedge (m1_subset_1 \ np_4 \ k1_numbers)) \end{aligned} \quad (25)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_49) \wedge (m2_subset_1 \ np_49 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_49 \ k5_numbers) \wedge (m1_subset_1 \ np_49 \ k1_numbers)) \end{aligned} \quad (26)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_48) \wedge (m2_subset_1 \ np_48 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_48 \ k5_numbers) \wedge (m1_subset_1 \ np_48 \ k1_numbers)) \end{aligned} \quad (27)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_47) \wedge (m2_subset_1 \ np_47 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_47 \ k5_numbers) \wedge (m1_subset_1 \ np_47 \ k1_numbers)) \end{aligned} \quad (28)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_46) \wedge (m2_subset_1 \ np_46 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_46 \ k5_numbers) \wedge (m1_subset_1 \ np_46 \ k1_numbers)) \end{aligned} \quad (29)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_45) \wedge (m2_subset_1 \ np_45 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_45 \ k5_numbers) \wedge (m1_subset_1 \ np_45 \ k1_numbers)) \end{aligned} \quad (30)$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0 \ np_44) \wedge (m2_subset_1 \ np_44 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_44 \ k5_numbers) \wedge (m1_subset_1 \ np_44 \ k1_numbers)) \end{aligned} \quad (31)$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0 \ np_43) \wedge (m2_subset_1 \ np_43 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_43 \ k5_numbers) \wedge (m1_subset_1 \ np_43 \ k1_numbers)) \end{aligned} \quad (32)$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0 \ np_42) \wedge (m2_subset_1 \ np_42 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_42 \ k5_numbers) \wedge (m1_subset_1 \ np_42 \ k1_numbers)) \end{aligned} \quad (33)$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0 \ np_41) \wedge (m2_subset_1 \ np_41 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_41 \ k5_numbers) \wedge (m1_subset_1 \ np_41 \ k1_numbers)) \end{aligned} \quad (34)$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0 \ np_40) \wedge (m2_subset_1 \ np_40 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_40 \ k5_numbers) \wedge (m1_subset_1 \ np_40 \ k1_numbers)) \end{aligned} \quad (35)$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0 \ np_3) \wedge (m2_subset_1 \ np_3 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_3 \ k5_numbers) \wedge (m1_subset_1 \ np_3 \ k1_numbers)) \end{aligned} \quad (36)$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0 \ np_39) \wedge (m2_subset_1 \ np_39 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_39 \ k5_numbers) \wedge (m1_subset_1 \ np_39 \ k1_numbers)) \end{aligned} \quad (37)$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0 \ np_38) \wedge (m2_subset_1 \ np_38 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_38 \ k5_numbers) \wedge (m1_subset_1 \ np_38 \ k1_numbers)) \end{aligned} \quad (38)$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0 \ np_37) \wedge (m2_subset_1 \ np_37 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_37 \ k5_numbers) \wedge (m1_subset_1 \ np_37 \ k1_numbers)) \end{aligned} \quad (39)$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0 \ np_36) \wedge (m2_subset_1 \ np_36 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_36 \ k5_numbers) \wedge (m1_subset_1 \ np_36 \ k1_numbers)) \end{aligned} \quad (40)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_35) \wedge (m2_subset_1 \ np_35 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_35 \ k5_numbers) \wedge (m1_subset_1 \ np_35 \ k1_numbers)) \end{aligned} \quad (41)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_34) \wedge (m2_subset_1 \ np_34 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_34 \ k5_numbers) \wedge (m1_subset_1 \ np_34 \ k1_numbers)) \end{aligned} \quad (42)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_33) \wedge (m2_subset_1 \ np_33 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_33 \ k5_numbers) \wedge (m1_subset_1 \ np_33 \ k1_numbers)) \end{aligned} \quad (43)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_32) \wedge (m2_subset_1 \ np_32 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_32 \ k5_numbers) \wedge (m1_subset_1 \ np_32 \ k1_numbers)) \end{aligned} \quad (44)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_31) \wedge (m2_subset_1 \ np_31 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_31 \ k5_numbers) \wedge (m1_subset_1 \ np_31 \ k1_numbers)) \end{aligned} \quad (45)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_30) \wedge (m2_subset_1 \ np_30 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_30 \ k5_numbers) \wedge (m1_subset_1 \ np_30 \ k1_numbers)) \end{aligned} \quad (46)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_2) \wedge (m2_subset_1 \ np_2 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_2 \ k5_numbers) \wedge (m1_subset_1 \ np_2 \ k1_numbers)) \end{aligned} \quad (47)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_29) \wedge (m2_subset_1 \ np_29 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_29 \ k5_numbers) \wedge (m1_subset_1 \ np_29 \ k1_numbers)) \end{aligned} \quad (48)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_28) \wedge (m2_subset_1 \ np_28 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_28 \ k5_numbers) \wedge (m1_subset_1 \ np_28 \ k1_numbers)) \end{aligned} \quad (49)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_27) \wedge (m2_subset_1 \ np_27 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_27 \ k5_numbers) \wedge (m1_subset_1 \ np_27 \ k1_numbers)) \end{aligned} \quad (50)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_26) \wedge (m2_subset_1 \ np_26 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_26 \ k5_numbers) \wedge (m1_subset_1 \ np_26 \ k1_numbers)) \end{aligned} \quad (51)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_25) \wedge (m2_subset_1 \ np_25 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_25 \ k5_numbers) \wedge (m1_subset_1 \ np_25 \ k1_numbers)) \end{aligned} \quad (52)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_24) \wedge (m2_subset_1 \ np_24 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_24 \ k5_numbers) \wedge (m1_subset_1 \ np_24 \ k1_numbers)) \end{aligned} \quad (53)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_23) \wedge (m2_subset_1 \ np_23 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_23 \ k5_numbers) \wedge (m1_subset_1 \ np_23 \ k1_numbers)) \end{aligned} \quad (54)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_22) \wedge (m2_subset_1 \ np_22 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_22 \ k5_numbers) \wedge (m1_subset_1 \ np_22 \ k1_numbers)) \end{aligned} \quad (55)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_21) \wedge (m2_subset_1 \ np_21 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_21 \ k5_numbers) \wedge (m1_subset_1 \ np_21 \ k1_numbers)) \end{aligned} \quad (56)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_20) \wedge (m2_subset_1 \ np_20 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_20 \ k5_numbers) \wedge (m1_subset_1 \ np_20 \ k1_numbers)) \end{aligned} \quad (57)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_1) \wedge (m2_subset_1 \ np_1 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_1 \ k5_numbers) \wedge (m1_subset_1 \ np_1 \ k1_numbers)) \end{aligned} \quad (58)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_19) \wedge (m2_subset_1 \ np_19 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_19 \ k5_numbers) \wedge (m1_subset_1 \ np_19 \ k1_numbers)) \end{aligned} \quad (59)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_18) \wedge (m2_subset_1 \ np_18 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_18 \ k5_numbers) \wedge (m1_subset_1 \ np_18 \ k1_numbers)) \end{aligned} \quad (60)$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0 \ np_17) \wedge (m2_subset_1 \ np_17 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_17 \ k5_numbers) \wedge (m1_subset_1 \ np_17 \ k1_numbers)) \end{aligned} \quad (61)$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0 \ np_16) \wedge (m2_subset_1 \ np_16 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_16 \ k5_numbers) \wedge (m1_subset_1 \ np_16 \ k1_numbers)) \end{aligned} \quad (62)$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0 \ np_15) \wedge (m2_subset_1 \ np_15 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_15 \ k5_numbers) \wedge (m1_subset_1 \ np_15 \ k1_numbers)) \end{aligned} \quad (63)$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0 \ np_14) \wedge (m2_subset_1 \ np_14 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_14 \ k5_numbers) \wedge (m1_subset_1 \ np_14 \ k1_numbers)) \end{aligned} \quad (64)$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0 \ np_13) \wedge (m2_subset_1 \ np_13 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_13 \ k5_numbers) \wedge (m1_subset_1 \ np_13 \ k1_numbers)) \end{aligned} \quad (65)$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0 \ np_12) \wedge (m2_subset_1 \ np_12 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_12 \ k5_numbers) \wedge (m1_subset_1 \ np_12 \ k1_numbers)) \end{aligned} \quad (66)$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0 \ np_11) \wedge (m2_subset_1 \ np_11 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_11 \ k5_numbers) \wedge (m1_subset_1 \ np_11 \ k1_numbers)) \end{aligned} \quad (67)$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0 \ np_10) \wedge (m2_subset_1 \ np_10 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_10 \ k5_numbers) \wedge (m1_subset_1 \ np_10 \ k1_numbers)) \end{aligned} \quad (68)$$

Assume the following.

$$(m2_subset_1 \ np_0 \ k1_numbers \ k5_numbers) \wedge ((m1_subset_1 \ np_0 \ k5_numbers) \wedge (m1_subset_1 \ np_0 \ k1_numbers)) \quad (69)$$

Assume the following.

$$v1_xboole_0 \ np_0 \quad (70)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_9 = np_10 \quad (71)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_8 = np_9 \quad (72)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_7 = np_8 \quad (73)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_6 = np_7 \quad (74)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_63 = np_64 \quad (75)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_62 = np_63 \quad (76)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_61 = np_62 \quad (77)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_60 = np_61 \quad (78)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_5 = np_6 \quad (79)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_59 = np_60 \quad (80)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_58 = np_59 \quad (81)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_57 = np_58 \quad (82)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_56 = np_57 \quad (83)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_55 = np_56 \quad (84)$$

Assume the following.

$$k2_xcmplx_0\ np_1\ np_54 = np_55 \quad (85)$$

Assume the following.

$$k2_xcmplx_0\ np_1\ np_53 = np_54 \quad (86)$$

Assume the following.

$$k2_xcmplx_0\ np_1\ np_52 = np_53 \quad (87)$$

Assume the following.

$$k2_xcmplx_0\ np_1\ np_51 = np_52 \quad (88)$$

Assume the following.

$$k2_xcmplx_0\ np_1\ np_50 = np_51 \quad (89)$$

Assume the following.

$$k2_xcmplx_0\ np_1\ np_4 = np_5 \quad (90)$$

Assume the following.

$$k2_xcmplx_0\ np_1\ np_49 = np_50 \quad (91)$$

Assume the following.

$$k2_xcmplx_0\ np_1\ np_48 = np_49 \quad (92)$$

Assume the following.

$$k2_xcmplx_0\ np_1\ np_47 = np_48 \quad (93)$$

Assume the following.

$$k2_xcmplx_0\ np_1\ np_46 = np_47 \quad (94)$$

Assume the following.

$$k2_xcmplx_0\ np_1\ np_45 = np_46 \quad (95)$$

Assume the following.

$$k2_xcmplx_0\ np_1\ np_44 = np_45 \quad (96)$$

Assume the following.

$$k2_xcmplx_0\ np_1\ np_43 = np_44 \quad (97)$$

Assume the following.

$$k2_xcmplx_0\ np_1\ np_42 = np_43 \quad (98)$$

Assume the following.

$$k2_xcmplx_0\ np_1\ np_41 = np_42 \quad (99)$$

Assume the following.

$$k2_xcmplx_0\ np_1\ np_40 = np_41 \quad (100)$$

Assume the following.

$$k2_xcmplx_0\ np_1\ np_3 = np_4 \quad (101)$$

Assume the following.

$$k2_xcmplx_0\ np_1\ np_39 = np_40 \quad (102)$$

Assume the following.

$$k2_xcmplx_0\ np_1\ np_38 = np_39 \quad (103)$$

Assume the following.

$$k2_xcmplx_0\ np_1\ np_37 = np_38 \quad (104)$$

Assume the following.

$$k2_xcmplx_0\ np_1\ np_36 = np_37 \quad (105)$$

Assume the following.

$$k2_xcmplx_0\ np_1\ np_35 = np_36 \quad (106)$$

Assume the following.

$$k2_xcmplx_0\ np_1\ np_34 = np_35 \quad (107)$$

Assume the following.

$$k2_xcmplx_0\ np_1\ np_33 = np_34 \quad (108)$$

Assume the following.

$$k2_xcmplx_0\ np_1\ np_32 = np_33 \quad (109)$$

Assume the following.

$$k2_xcmplx_0\ np_1\ np_31 = np_32 \quad (110)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_30 = np_31 \quad (111)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_2 = np_3 \quad (112)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_29 = np_30 \quad (113)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_28 = np_29 \quad (114)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_27 = np_28 \quad (115)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_26 = np_27 \quad (116)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_25 = np_26 \quad (117)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_24 = np_25 \quad (118)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_23 = np_24 \quad (119)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_22 = np_23 \quad (120)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_21 = np_22 \quad (121)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_20 = np_21 \quad (122)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_1 = np_2 \quad (123)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_19 = np_20 \quad (124)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_18 = np_19 \quad (125)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_17 = np_18 \quad (126)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_16 = np_17 \quad (127)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_15 = np_16 \quad (128)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_14 = np_15 \quad (129)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_13 = np_14 \quad (130)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_12 = np_13 \quad (131)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_11 = np_12 \quad (132)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_10 = np_11 \quad (133)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_0 = np_1 \quad (134)$$

Assume the following.

$$\neg r1_xxreal_0 \ np_64 \ np_9 \quad (135)$$

Assume the following.

$$\neg r1_xxreal_0 \ np_64 \ np_8 \quad (136)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ } np_64 \text{ } np_7 \tag{137}$$

Assume the following.

$$\neg r1_xxreal_0 \text{ } np_64 \text{ } np_63 \tag{138}$$

Assume the following.

$$\neg r1_xxreal_0 \text{ } np_64 \text{ } np_62 \tag{139}$$

Assume the following.

$$\neg r1_xxreal_0 \text{ } np_64 \text{ } np_61 \tag{140}$$

Assume the following.

$$\neg r1_xxreal_0 \text{ } np_64 \text{ } np_60 \tag{141}$$

Assume the following.

$$\neg r1_xxreal_0 \text{ } np_64 \text{ } np_6 \tag{142}$$

Assume the following.

$$\neg r1_xxreal_0 \text{ } np_64 \text{ } np_59 \tag{143}$$

Assume the following.

$$\neg r1_xxreal_0 \text{ } np_64 \text{ } np_58 \tag{144}$$

Assume the following.

$$\neg r1_xxreal_0 \text{ } np_64 \text{ } np_57 \tag{145}$$

Assume the following.

$$\neg r1_xxreal_0 \text{ } np_64 \text{ } np_56 \tag{146}$$

Assume the following.

$$\neg r1_xxreal_0 \text{ } np_64 \text{ } np_55 \tag{147}$$

Assume the following.

$$\neg r1_xxreal_0 \text{ } np_64 \text{ } np_54 \tag{148}$$

Assume the following.

$$\neg r1_xxreal_0 \text{ } np_64 \text{ } np_53 \tag{149}$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_52} \quad (150)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_51} \quad (151)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_50} \quad (152)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_5} \quad (153)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_49} \quad (154)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_48} \quad (155)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_47} \quad (156)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_46} \quad (157)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_45} \quad (158)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_44} \quad (159)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_43} \quad (160)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_42} \quad (161)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_41} \quad (162)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_40} \quad (163)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_4} \quad (164)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_39} \quad (165)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_38} \quad (166)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_37} \quad (167)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_36} \quad (168)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_35} \quad (169)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_34} \quad (170)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_33} \quad (171)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_32} \quad (172)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_31} \quad (173)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_30} \quad (174)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_3} \quad (175)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_29} \quad (176)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_28} \quad (177)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_27} \quad (178)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_26} \quad (179)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_25} \quad (180)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_24} \quad (181)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_23} \quad (182)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_22} \quad (183)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_21} \quad (184)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_20} \quad (185)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_2} \quad (186)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_19} \quad (187)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_18} \quad (188)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_17} \quad (189)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_16} \quad (190)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_15} \quad (191)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_14} \quad (192)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_13} \quad (193)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_12} \quad (194)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_11} \quad (195)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_10} \quad (196)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_1} \quad (197)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ np_64 np_0} \quad (198)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (199)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (200)$$

Assume the following.

$$\forall X0.\forall X1.((v1_relat_1 X1)\wedge(v4_relat_1 X1 X0))\Rightarrow(\quad (201)$$
$$k1_relset_1 X0 X1 = k9_xtuple_0 X1)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5. \\ & (((v1_funct_1 X4)\wedge(m1_subset_1 X4 (k1_zfmisc_1 (k2_zfmisc_1 \\ & X0 X1))))\wedge((v1_funct_1 X5)\wedge(m1_subset_1 X5 (k1_zfmisc_1 (k2_zfmisc_1 \\ & X2 X3))))\Rightarrow(k1_partfun1 X0 X1 X2 X3 X4 X5 = k3_relat_1 X4 X5) \end{aligned} \quad (202)$$

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1 X0)\wedge(m1_subset_1 X1 k5_numbers))\Rightarrow (k1_nat_1 X0 X1 = k2_xcmplx_0 X0 X1) \quad (203)$$

Assume the following.

$$\forall X0.\forall X1.v1_relat_1 (k2_zfmisc_1 X0 X1) \quad (204)$$

Assume the following.

$$\forall X0.\forall X1.(m1_finseq_2 X1 X0)\Rightarrow(\forall X2.(m2_finseq_2 X2 X0 X1)\Rightarrow(m2_finseq_1 X2 X0)) \quad (205)$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1 X1 X0)\Rightarrow((v1_funct_1 X1)\wedge((v1_finseq_1 X1)\wedge(m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers X0)))))) \quad (206)$$

Assume the following.

$$\forall X0.\forall X1.(v7_ordinal1 X0)\Rightarrow(m1_finseq_2 (k4_finseq_2 X0 X1) X1) \quad (207)$$

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1 X0)\wedge(m1_subset_1 X1 k5_numbers))\Rightarrow (k1_nat_1 X0 X1 = k1_nat_1 X1 X0) \quad (208)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k4_ordinal1)\Rightarrow(v7_ordinal1 X0) \quad (209)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))\Rightarrow((v4_relat_1 X2 X0)\wedge(v5_relat_1 X2 X1)) \quad (210)$$

Assume the following.

$$\forall X0.(v1_relat_1 X0)\Rightarrow(\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 X0))\Rightarrow(v1_relat_1 X1)) \quad (211)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v1_funct_1 X0) \wedge ((v1_funct_2 X0 \text{ np_64 } (k2_finseq_1 \\ & \text{ np_64})) \wedge ((v1_descip_1 X0 \text{ np_64}) \wedge (m1_subset_1 X0 (k1_zfmisc_ \\ & (k2_zfmisc_1 \text{ np_64 } (k2_finseq_1 \text{ np_64})))))) \Rightarrow (\forall X1. \\ & (\neg v1_xboole_0 X1) \Rightarrow (\forall X2.(m1_subset_1 X2 X1) \Rightarrow (\forall X3. \\ & (m1_subset_1 X3 X1) \Rightarrow (\forall X4.(m1_subset_1 X4 X1) \Rightarrow (\forall X5. \\ & (m1_subset_1 X5 X1) \Rightarrow (\forall X6.(m1_subset_1 X6 X1) \Rightarrow (\forall X7. \\ & (m1_subset_1 X7 X1) \Rightarrow (\forall X8.(m1_subset_1 X8 X1) \Rightarrow (\forall X9. \\ & (m1_subset_1 X9 X1) \Rightarrow (\forall X10.(m1_subset_1 X10 X1) \Rightarrow (\forall X11. \\ & (m1_subset_1 X11 X1) \Rightarrow (\forall X12.(m1_subset_1 X12 X1) \Rightarrow (\forall X13. \\ & (m1_subset_1 X13 X1) \Rightarrow (\forall X14.(m1_subset_1 X14 X1) \Rightarrow (\forall X15. \\ & (m1_subset_1 X15 X1) \Rightarrow (\forall X16.(m1_subset_1 X16 X1) \Rightarrow (\forall X17. \\ & (m1_subset_1 X17 X1) \Rightarrow (\forall X18.(m1_subset_1 X18 X1) \Rightarrow (\forall X19. \\ & (m1_subset_1 X19 X1) \Rightarrow (\forall X20.(m1_subset_1 X20 X1) \Rightarrow (\forall X21. \\ & (m1_subset_1 X21 X1) \Rightarrow (\forall X22.(m1_subset_1 X22 X1) \Rightarrow (\forall X23. \\ & (m1_subset_1 X23 X1) \Rightarrow (\forall X24.(m1_subset_1 X24 X1) \Rightarrow (\forall X25. \\ & (m1_subset_1 X25 X1) \Rightarrow (\forall X26.(m1_subset_1 X26 X1) \Rightarrow (\forall X27. \\ & (m1_subset_1 X27 X1) \Rightarrow (\forall X28.(m1_subset_1 X28 X1) \Rightarrow (\forall X29. \\ & (m1_subset_1 X29 X1) \Rightarrow (\forall X30.(m1_subset_1 X30 X1) \Rightarrow (\forall X31. \\ & (m1_subset_1 X31 X1) \Rightarrow (\forall X32.(m1_subset_1 X32 X1) \Rightarrow (\forall X33. \\ & (m1_subset_1 X33 X1) \Rightarrow (\forall X34.(m1_subset_1 X34 X1) \Rightarrow (\forall X35. \\ & (m1_subset_1 X35 X1) \Rightarrow (\forall X36.(m1_subset_1 X36 X1) \Rightarrow (\forall X37. \\ & (m1_subset_1 X37 X1) \Rightarrow (\forall X38.(m1_subset_1 X38 X1) \Rightarrow (\forall X39. \\ & (m1_subset_1 X39 X1) \Rightarrow (\forall X40.(m1_subset_1 X40 X1) \Rightarrow (\forall X41. \\ & (m1_subset_1 X41 X1) \Rightarrow (\forall X42.(m1_subset_1 X42 X1) \Rightarrow (\forall X43. \\ & (m1_subset_1 X43 X1) \Rightarrow (\forall X44.(m1_subset_1 X44 X1) \Rightarrow (\forall X45. \\ & (m1_subset_1 X45 X1) \Rightarrow (\forall X46.(m1_subset_1 X46 X1) \Rightarrow (\forall X47. \\ & (m1_subset_1 X47 X1) \Rightarrow (\forall X48.(m1_subset_1 X48 X1) \Rightarrow (\forall X49. \\ & (m1_subset_1 X49 X1) \Rightarrow (\forall X50.(m1_subset_1 X50 X1) \Rightarrow (\forall X51. \\ & (m1_subset_1 X51 X1) \Rightarrow (\forall X52.(m1_subset_1 X52 X1) \Rightarrow (\forall X53. \\ & (m1_subset_1 X53 X1) \Rightarrow (\forall X54.(m1_subset_1 X54 X1) \Rightarrow (\forall X55. \\ & (m1_subset_1 X55 X1) \Rightarrow (\forall X56.(m1_subset_1 X56 X1) \Rightarrow (\forall X57. \\ & (m1_subset_1 X57 X1) \Rightarrow (\forall X58.(m1_subset_1 X58 X1) \Rightarrow (\forall X59. \\ & (m1_subset_1 X59 X1) \Rightarrow (\forall X60.(m1_subset_1 X60 X1) \Rightarrow (\forall X61. \\ & (m1_subset_1 X61 X1) \Rightarrow (\forall X62.(m1_subset_1 X62 X1) \Rightarrow (\forall X63. \\ & (m1_subset_1 X63 X1) \Rightarrow (\forall X64.(m1_subset_1 X64 X1) \Rightarrow (\forall X65. \\ & (m1_subset_1 X65 X1) \Rightarrow (\forall X66.(m2_finseq_2 X66 X1 (k4_finseq \\ & \text{ np_64 } X1) \Rightarrow (((k1_funct_1 X66 \text{ np_1} = X2) \wedge ((k1_funct_1 X66 \text{ np_} \\ & \text{ X3}) \wedge ((k1_funct_1 X66 \text{ np_3} = X4) \wedge ((k1_funct_1 X66 \text{ np_4} = X5 \\ & (k1_funct_1 X66 \text{ np_5} = X6) \wedge ((k1_funct_1 X66 \text{ np_6} = X7) \wedge ((k1_fu \\ & \text{ X66 np_7} = X8) \wedge ((k1_funct_1 X66 \text{ np_8} = X9) \wedge ((k1_funct_1 X66 \text{ n} \\ & \text{ X10}) \wedge ((k1_funct_1 X66 \text{ np_10} = X11) \wedge ((k1_funct_1 X66 \text{ np_11} = X \\ & ((k1_funct_1 X66 \text{ np_12} = X13) \wedge ((k1_funct_1 X66 \text{ np_13} = X14 \\ & (k1_funct_1 X66 \text{ np_14} = X15) \wedge ((k1_funct_1 X66 \text{ np_15} = X16) \\ & k1_funct_1 X66 \text{ np_16} = X17) \wedge ((k1_funct_1 X66 \text{ np_17} = X18) \wedge ((k1 \\ & \text{ X66 np_18} = X19) \wedge ((k1_funct_1 X66 \text{ np_19} = X20) \wedge ((k1_funct_1 \\ & \text{ np_20} = X21) \wedge ((k1_funct_1 X66 \text{ np_21} = X22) \wedge ((k1_funct_1 X66 \text{ np} \\ & \text{ X23}) \wedge ((k1_funct_1 X66 \text{ np_23} = X24) \wedge ((k1_funct_1 X66 \text{ np_24} = X \\ & ((k1_funct_1 X66 \text{ np_25} = X26) \wedge ((k1_funct_1 X66 \text{ np_26} = X27 \\ & (k1_funct_1 X66 \text{ np_27} = X28) \wedge ((k1_funct_1 X66 \text{ np_28} = X29) \\ & k1_funct_1 X66 \text{ np_29} = X30) \wedge ((k1_funct_1 X66 \text{ np_30} = X31) \wedge ((k1 \\ & \text{ X66 np_31} = X32) \wedge ((k1_funct_1 X66 \text{ np_32} = X33) \wedge ((k1_funct_1 \\ & \text{ np_33} = X34) \wedge ((k1_funct_1 X66 \text{ np_34} = X35) \wedge ((k1_funct_1 X66 \text{ np} \\ & \text{ X36}) \wedge ((k1_funct_1 X66 \text{ np_36} = X37) \wedge ((k1_funct_1 X66 \text{ np_37} = X \\ & ((k1_funct_1 X66 \text{ np_38} = X39) \wedge ((k1_funct_1 X66 \text{ np_39} = X40 \\ & (k1_funct_1 X66 \text{ np_40} = X41) \wedge ((k1_funct_1 X66 \text{ np_41} = X42) \\ & k1_funct_1 X66 \text{ np_42} = X43) \wedge ((k1_funct_1 X66 \text{ np_43} = X44) \wedge ((k1 \\ & \text{ X66 np_44} = X45) \wedge ((k1_funct_1 X66 \text{ np_45} = X46) \wedge ((k1_funct_1 \\ & \text{ np_46} = X47) \wedge ((k1_funct_1 X66 \text{ np_47} = X48) \wedge ((k1_funct_1 X66 \text{ np} \\ & \text{ X49}) \wedge ((k1_funct_1 X66 \text{ np_49} = X50) \wedge ((k1_funct_1 X66 \text{ np_50} = \end{aligned}$$