

t13\_weierstr (TMHKU-  
UzsAZRNZ5a9WDcmmDgsyuKbmNm3eK6)

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Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k3\_topmetr : \iota$  be given. Let  $v2\_compts\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_rcomp\_1 : \iota \Rightarrow o$  be given. Let  $k1\_weierstr : \iota \Rightarrow \iota$  be given. Let  $v2\_rcomp\_1 : \iota \Rightarrow o$  be given. Let  $v5\_xxreal\_2 : \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 (u1\_struct\_0 k3\_topmetr))) \Rightarrow ((v2\_compts\_1 X0 k3\_topmetr) \Rightarrow (v2\_rcomp\_1 (k1\_weierstr X0))) \quad (1)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 (u1\_struct\_0 k3\_topmetr))) \Rightarrow ((v2\_compts\_1 X0 k3\_topmetr) \Rightarrow (v5\_xxreal\_2 (k1\_weierstr X0))) \quad (2)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 k1\_numbers)) \Rightarrow (((v5\_xxreal\_2 X0) \wedge (v2\_rcomp\_1 X0)) \Rightarrow (v1\_rcomp\_1 X0)) \quad (3)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 (u1\_struct\_0 k3\_topmetr))) \Rightarrow (m1\_subset\_1 (k1\_weierstr X0) (k1\_zfmisc\_1 k1\_numbers)) \quad (4)$$

**Theorem 1**

$$\forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 (u1\_struct\_0 k3\_topmetr))) \Rightarrow ((v2\_compts\_1 X0 k3\_topmetr) \Rightarrow (v1\_rcomp\_1 (k1\_weierstr X0)))$$