Proof of Theorem 13b

The theorem to be proved is

$$0 + 0 = 0 + 0$$

Suppose the theorem does not hold. Then, with the variables held fixed,

(H)
$$[[\neg (0+0) = (0+0)]]$$

Special cases of the hypothesis and previous results:

0:
$$\neg 0 + 0 = 0 + 0$$
 from H

1:
$$0+0=0+0$$
 from $\underline{5};0+0$

Inferences:

$$2: QEA$$
 by

0:
$$\neg 0 + 0 = 0 + 0$$

1:
$$0+0=0+0$$