## 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) $\quad[[\neg(0+0)=(0+0)]]$

Special cases of the hypothesis and previous results:

0: $\neg 0+0=0+0 \quad$ from $\quad \mathrm{H}$
1: $\quad 0+0=0+0 \quad$ from $\quad \underline{5} ; 0+0$

## Inferences:

2: $Q E A$ by
0: $\neg 0+0=0+0$
1: $0+0=0+0$

