## Proof of Theorem 22b

The theorem to be proved is
$0 \neq 0 \quad \rightarrow \quad 0=\mathrm{SP} 0$
Suppose the theorem does not hold. Then, with the variables held fixed, (H) $\quad[[\neg(0)=(0)] \quad \& \quad[\neg(0)=(\mathrm{S}(\mathrm{P} 0))]]$

Special cases of the hypothesis and previous results:

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

## Inferences:

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

