```
band_simp_1  THM

⊢  ∀b:𝔹. (b∧₂true₂) = b
| by ((Analyze 0) THEN (BoolInd 1)) THEN Simp THEN StrongAuto
|
|\
| ⊢  (true₂∧₂true₂) = true₂
| | by Unab [‘ifthenelse‘;‘btrue‘;‘bfalse‘;‘band‘] THEN Reduce 0
| |    THEN
| |    StrongAuto
| |
| ⊢  inl(•) = inl(•)  by Fold ‘btrue‘ 0 THEN StrongAuto
|
.\
. ⊢  (false₂∧₂true₂) = false₂
. | by Unab [‘ifthenelse‘;‘btrue‘;‘bfalse‘;‘band‘] THEN Reduce 0
. |    THEN
. |    StrongAuto
. |
. ⊢  inr(•) = inr(•)  by Fold ‘bfalse‘ 0 THEN StrongAuto
END
```