7 (A G B) - 7 A G B.

Apologies for not being able to show this during own totorial! It's a title truckier the exam standard and (you'll see) harder the the ather direction.

given 1. 7 (A 6> B) ass. 2. 7A 3. 7B ass LI(2,4) 1 (S) →I (4,6) A -> B aes 1I(3, 2) 1E (9) ->7 (P,10) 11. B > A 12. A 47 B 4) I (7,11)

How

I want to show

7 A >B

 $B \rightarrow \neg A$

usy >I.

good way to get B

directly from $\neg(A \leftrightarrow B)$, $\neg A.(*)$

15. 7A -> B -> I(2,14)

17 (1,12)

PC (3,13)

13. 上

27. B > 7A > I (16,26)
28. 7A <> B <> I (15,27).

E almost the same strategy.

(*) This is because of all the 7 symbols on the outrale.

The only way to remone 7 is through contradiction. This is why I didn't use PC for the overall strategy (Think about this for 30 seconds).

AG7B + ¬(AGB).
This is the easier one. This is of the form ¬F, so will try ¬I.

1.	A 677B	given
2	A <=> B	gos.
V3.	B	901.
4.	A	$ \iff E(3,2) $ $ \iff E(4,1) $
5.	78	II (3,5)
6.	<u></u>	7[(3,6)
7.	78	€> E(7,1)
8.	A B	€) E (8,2)
10.	1	-t (9,7)
11.	7(A63B)	7[(2,10)

deliberately being incomment here