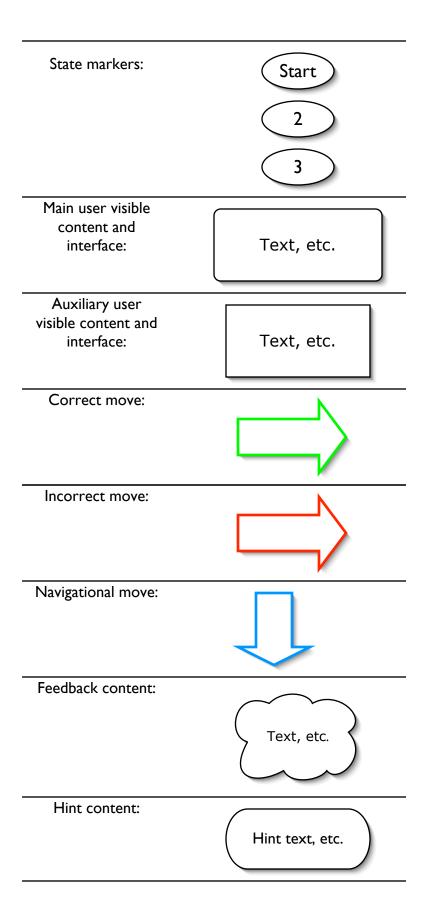
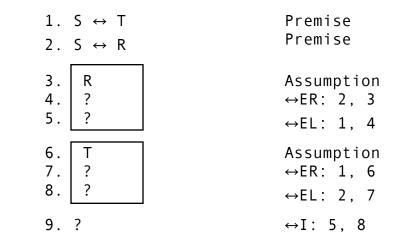
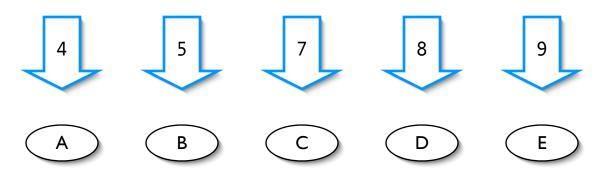
## Legend:



Complete the following derivation by filling in the missing formulae. To fill in the formula on a given line, just click anywhere on that line.



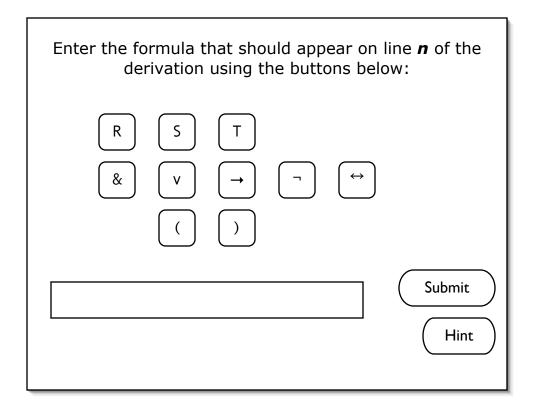


## Completed Derivation:

1. S $\leftrightarrow$ T	Premise
2. S $\leftrightarrow$ R	Premise
3. R	Assumption
4. S	↔ER: 2, 3
5. T	↔EL: 1, 4
6. T	Assumption
7. S	↔ER: 1, 6
8. R	↔EL: 2, 7
9. R ↔ T	↔I: 5, 8

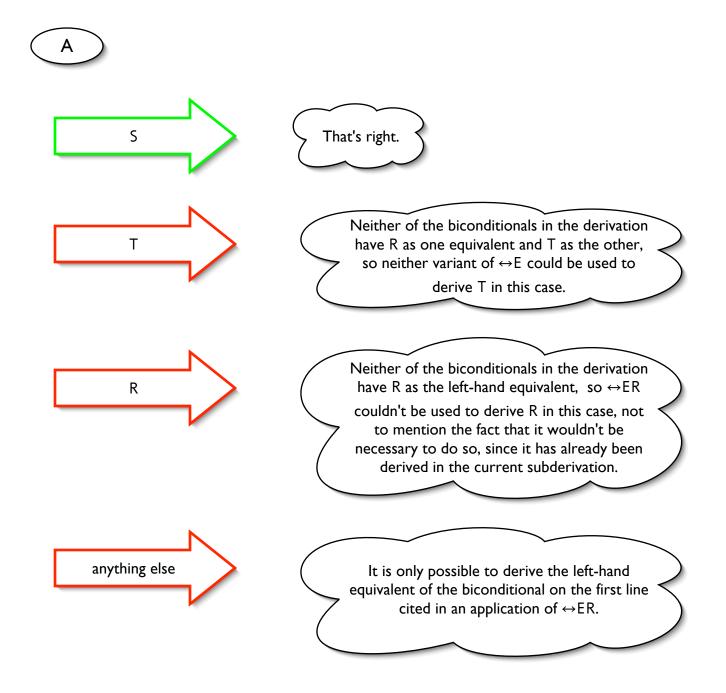
Start

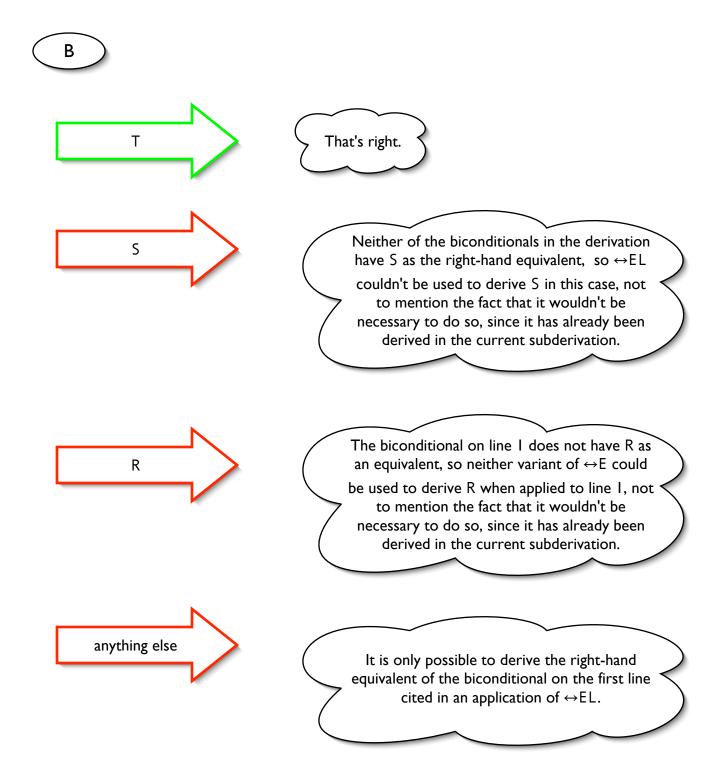
Interface for entering formulae:

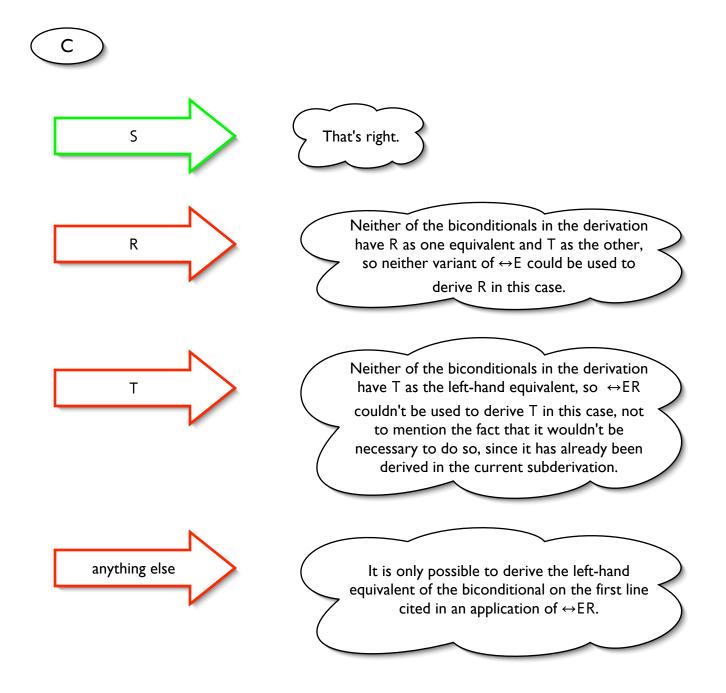


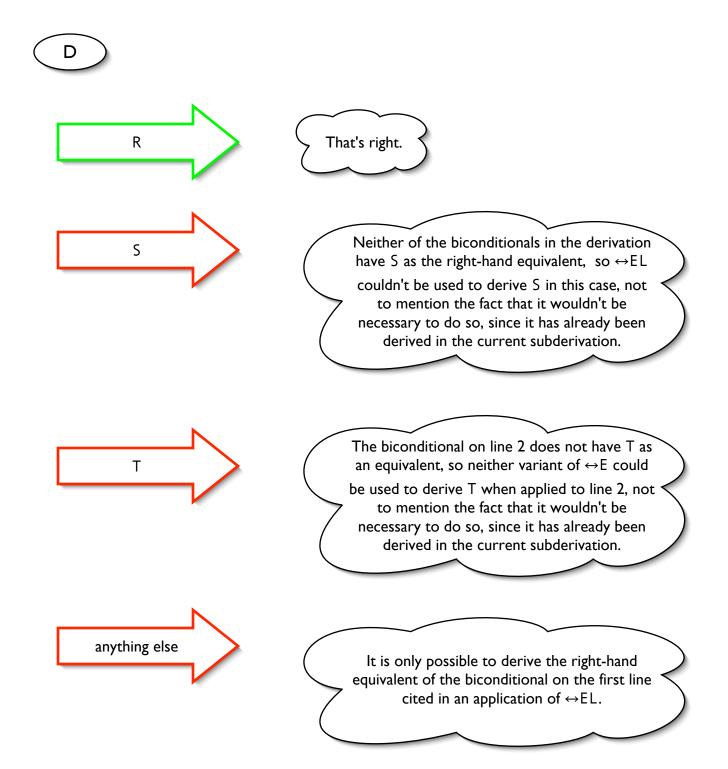
I've included the ideal version of the interface, here, which contains all and only those symbols actually appearing in the exercise.

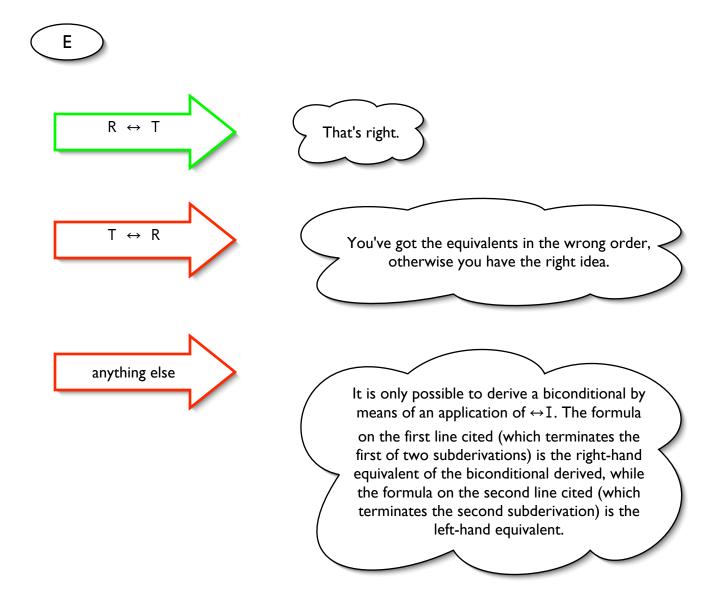
If a standardized palette is going to be used for all exercises (for a given set of connectives), I'd prefer to use different sentential letters than those above. Please let me know if that's the case so that I can make the appropriate changes to the scripts.

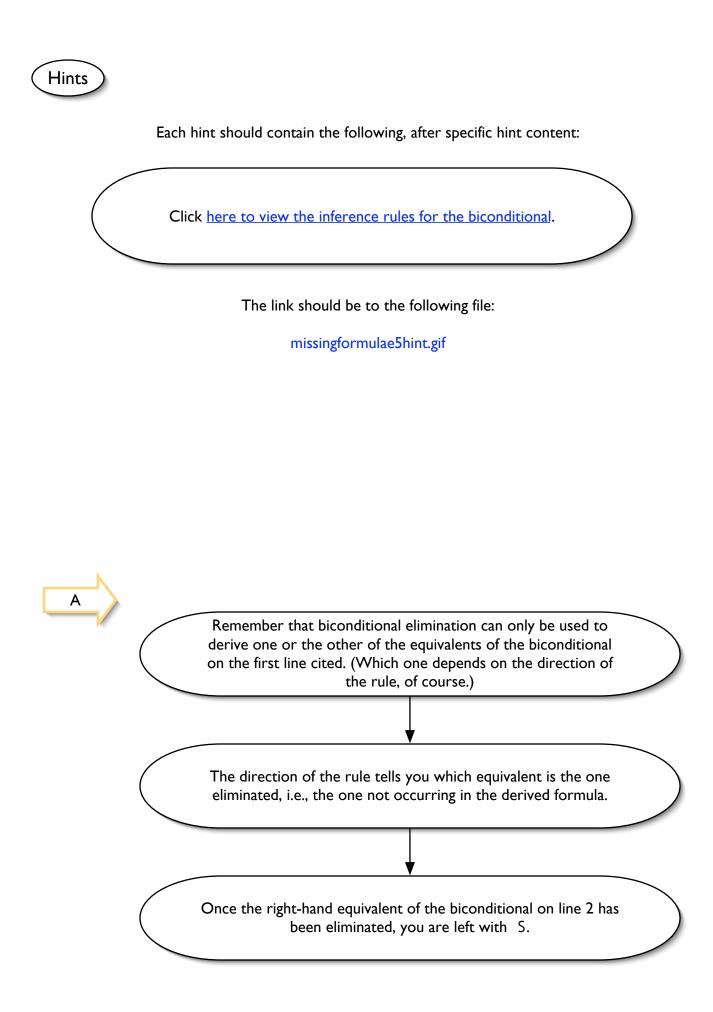


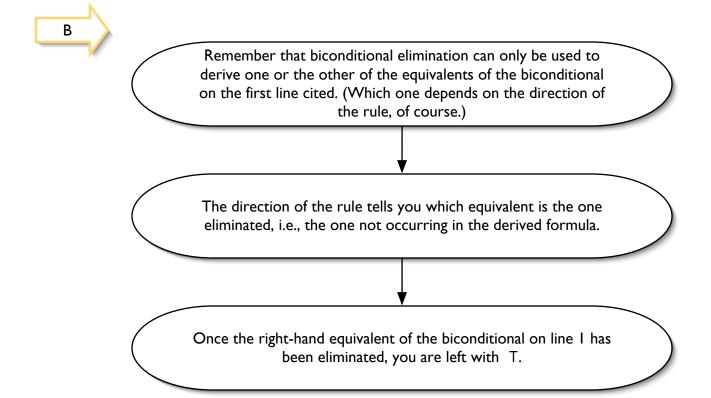












C Remember that biconditional elimination can only be used to derive one or the other of the equivalents of the biconditional on the first line cited. (Which one depends on the direction of the rule, of course.) The direction of the rule tells you which equivalent is the one eliminated, i.e., the one not occurring in the derived formula. Once the right-hand equivalent of the biconditional on line I has been eliminated, you are left with S.

