## Legend:



Start

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. 1. P(a,b,c)Premise 2. a = 1Premise 3. m = bPremise 4. c = nPremise 5. ? =E: 1, 2 6. ? =E: 5, 4 7. ? =I 8. b = m=E: 7, 3 =E: 6, 8 ? 9. 5 9 6 7

## Completed Derivation:

1.	P(a,b,c)
2.	a = 1
3.	m = b
4.	c = n
5.	P(l,b,c)
6.	P(l,b,n)
7.	m = m
8.	b = m
9.	P(l,m,n)

```
Premise
Premise
Premise
=E: 1, 2
=E: 5, 4
=I
=E: 7, 3
=E: 6, 8
```

Interface for entering formulae:



I've included my ideal version of the interface, here.

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













C Remember that =I can only be used to introduce formulae of the form  $\mathbf{x} = \mathbf{x}$ . Check other lines in the derivation to see if this line is cited in their justification to determine what term to use. Line 8 is derived by an application of =E to this line and the identity on line 3, whose left identical is m. The formula you should enter here is m = m.

