# A Peculiarity of Our Propositional Language

 $\frac{Notational\ Convention}{Notational\ Convention}:}$ We shall consider negated formulas of the form  $\neg \phi$ as abbreviations of  $\phi \rightarrow \bot$ 

#### An Application of $\rightarrow$ E



## An Application of $\rightarrow$ E



## An Application of →I



#### Deriving the PNC



#### Deriving the PNC



Note the use of our notational convention in the application of rules  $\rightarrow E$  and  $\rightarrow I$