定理4:  $\vdash_{PC}(B \to C) \to ((A \to B) \to (A \to C))$  加前件定理 证明:  $(A \to (B \to C)) \to ((A \to B) \to (A \to C))$   $A_2$  $((A \to (B \to C)) \to ((A \to B) \to (A \to C)))$   $\to ((B \to C) \to ((A \to (B \to C)) \to ((A \to (B \to C)) \to ((A \to (B \to C))))$   $A_1$  $(B \to C) \to ((A \to (B \to C)) \to ((A \to (B \to C))))$   $A_1$  $((B \to C) \to ((A \to (B \to C)) \to ((A \to (B \to C))))$   $A_2$   $\to (((B \to C) \to (A \to (B \to C))) \to ((B \to C) \to ((A \to (B) \to (A \to (C)))))$  $((B \to C) \to (A \to (B \to C))) \to ((B \to C) \to ((A \to (B) \to (C))))$  $(B \to C) \to (A \to (B \to C))$   $A_1$   $(3)(4)r_{mp}$ 

 $7 \quad (B \to C) \to ((A \to B) \to (A \to C)) \quad (6)(5)r_{mp}$