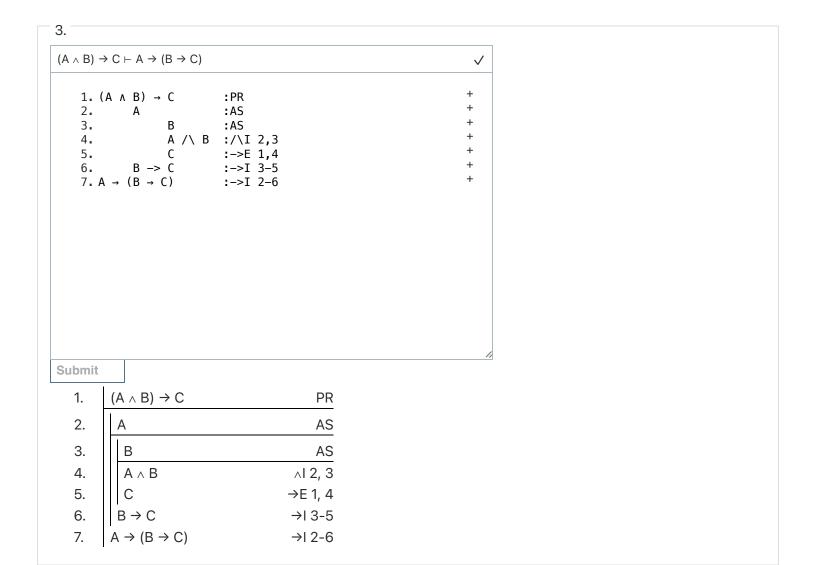
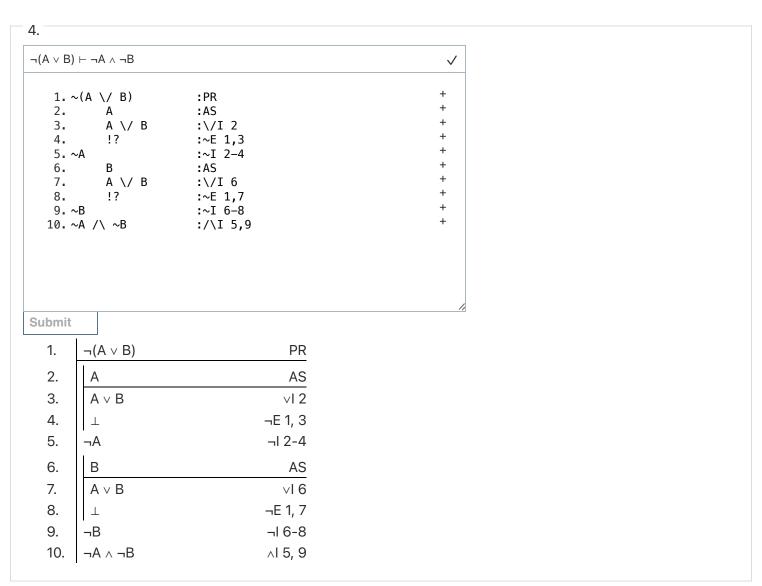


2.	
$\neg A \vdash \neg (A \land B)$	
1.	
Submit	





```
5.

¬A ∧ ¬B ⊢ ¬(A ∨ B)

1.

Submit
```

```
6.
(\mathsf{A} \wedge \mathsf{B}) \vee (\mathsf{C} \wedge \mathsf{D}) \vdash \mathsf{A} \vee \mathsf{C}
     1. (A /\ B) \/ (C /\ D)
                                               :PR
                                                                                          +
                                                                                          +
     2.
               A /\ B
                                               :AS
     3.
                                               :/\E 2
                Α
                A \/ C
                                               :\/I 3
     4.
     5. --
                C /\ D
                                               :AS
     6.
                                               :/\E 6
     7.
                C
                                               :\/I 7
                A \/ C
                                               :\/E 1, 2-4, 6-8
     9. A \/ C
Submit
                                                         PR
            (A \wedge B) \vee (C \wedge D)
    1.
                                                         AS
    2.
            A \wedge B
    3.
             Α
                                                      ∧E 2
            A \lor C
    4.
                                                       ∨I 3
    6.
             \mathsf{C} \wedge \mathsf{D}
                                                        AS
             С
    7.
                                                      ∧E 6
    8.
           A \vee C
                                                       ∨I 7
    9.
           \mathsf{A} \vee \mathsf{C}
                                         ∨E 1, 2-4, 6-8
```

7.	
$A \vee \neg (B \wedge C) \vdash A \vee \neg B$	
1.	
Submit	

