

# Assignment Week 6

Philosophy 305

Due February 11, 2022, 5pm

## Proofs

Provide proofs of each of the following arguments. You should enter these in <http://carnap.io>, and make a note in Canvas when you are done.

1.  $(A \vee B) \wedge (A \vee C) \vdash A \vee (B \wedge C)$
2.  $B \vdash \neg(A \wedge \neg A)$
3.  $(A \rightarrow C) \wedge (B \rightarrow C) \vdash (A \vee B) \rightarrow C$
4.  $\neg A \rightarrow \neg B \vdash B \rightarrow A$
5.  $A \rightarrow (B \vee C) \vdash (A \rightarrow B) \vee (A \rightarrow C)$