

# Assignment Week 5

Philosophy 305

Due February 4, 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.  $A \rightarrow B, A \rightarrow C \vdash A \rightarrow (B \wedge C)$
2.  $(A \wedge B) \rightarrow C \vdash A \rightarrow (B \rightarrow C)$
3.  $\$A \rightarrow (B \rightarrow C) \equiv (A \equiv B) \rightarrow C \$$
4.  $A \vee (B \wedge C) \vdash (A \vee B) \wedge (A \vee C)$
5.  $A \vee C, A \rightarrow C, B \rightarrow D \vdash C \vee D$