Automated Theorem Proving, SS 2022. Seminar 4

1. Prove in natural style that:
   (a) $((A \vee B) \Rightarrow C) \Rightarrow ((A \Rightarrow C) \wedge (B \Rightarrow C))$,
   (b) $((A \Rightarrow C) \wedge (B \Rightarrow C)) \Leftrightarrow ((A \vee B) \Rightarrow C)$
   (c) $((A \Rightarrow B) \wedge (B \Rightarrow C)) \Rightarrow ((A \wedge B) \Rightarrow C)$
   (d) $((B \Rightarrow A) \wedge (B \Rightarrow C)) \Rightarrow ((A \vee B) \Rightarrow C)$
2. Construct the sequent proof for all formulae from the previous exercise.