Exercise Sheet 12c Propositional Logic – Natural Deduction

Let F be the formula $(\neg A \land B) \to (A \lor C) \to C$ and let G be the formula $(A \land \neg B) \to (\neg A \lor (C \to B)) \to \neg C$

- 1. Provide parse trees corresponding to F and G
- 2. Provide a constructive Natural Deduction proof of F
- 3. Provide a Constructive Natural Deduction proof of G
- 4. Provide an example of a valuation satisfying F. Provide an example of a valuation satisfying G.