Exercise Sheet 12f Propositional Logic – Natural Deduction

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

- 1. Provide parse trees corresponding to F and G
- 2. Provide a constructive Natural Deduction proof of F
- 3. Provide a classical Natural Deduction proof of G
- 4. Are F and G equivalent? Justify your answer.