1. Use a signed tableau to show that $(A \Rightarrow B) \Rightarrow (A \Rightarrow C)$ is a logical consequence of $A \Rightarrow (B \Rightarrow C)$.

2. Use a signed tableau to show that $A \Rightarrow B$ is logically equivalent to $(\neg B) \Rightarrow (\neg A)$.

3. Use an unsigned tableau to show that $A \Rightarrow (B \Rightarrow C)$ is logically equivalent to $(A \& B) \Rightarrow C$.

4. Use an unsigned tableau to test $(p \lor q) \Rightarrow (p \& q)$ for logical validity. If this formula is not logically valid, use the tableau to find all assignments which falsify it.

5. Redo the previous problem using a signed tableau.