Q3, KB entails α if α is true in all worlds where KB is true. ($KB \models \alpha$)

a] In the truth table, S_1 is true in all worlds where KB is true
hence KB entails S_1. ($KB \models S_1$)

b] If we change KB to NOT(KB) & S_1 to NOT(S_1), there are 2 rows (worlds) where NOT(S_1) is false but NOT(KB) is true.
Hence NOT(KB) does not entails NOT(S_1)
$NOT(KB) \not\models NOT(S_1)$

Q.4

a] $A \rightarrow (\neg(C \vee B))$

$\neg A \vee (\neg(C \vee B))$

$\neg A \vee (\neg C \wedge \neg B)$

$(\neg A \vee \neg C) \wedge (\neg A \vee \neg B)$

b] $(\neg(C \vee B)) \rightarrow A$

$\neg(\neg(C \vee B)) \vee A$

$C \vee B \vee A$