



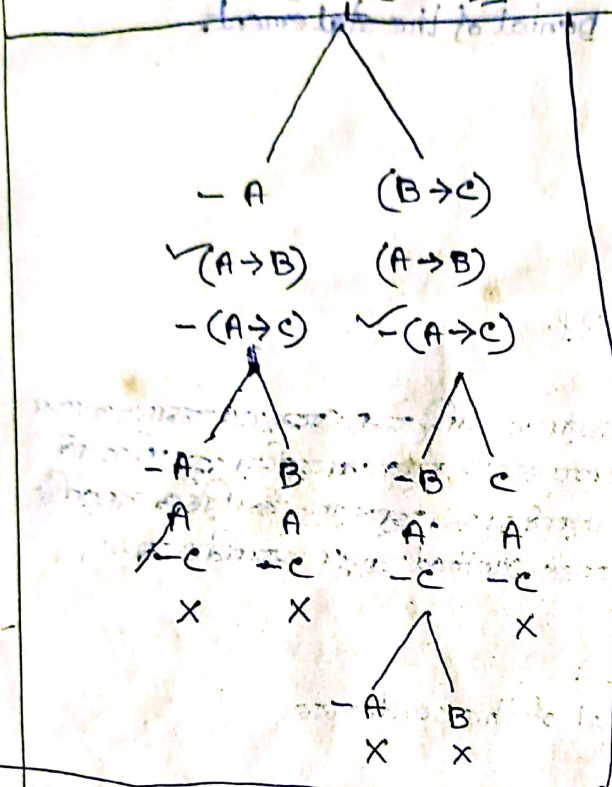
$\Rightarrow [A \rightarrow (B \rightarrow C)] \rightarrow [(A \rightarrow B) \rightarrow (A \rightarrow C)]$

1)  $\neg \{ [A \rightarrow (B \rightarrow C)] \rightarrow [(A \rightarrow B) \rightarrow (A \rightarrow C)] \}$  - Denial of the sentence.

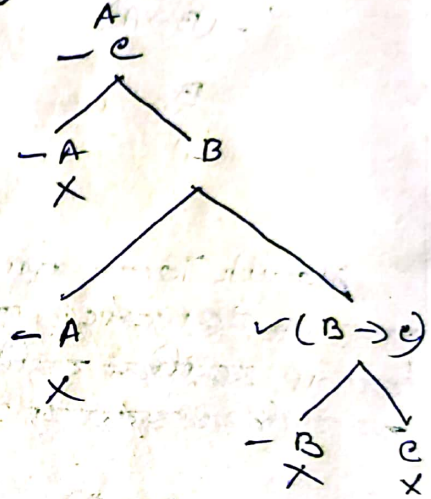
$\neg A \rightarrow (B \rightarrow C)$

$\neg [(A \rightarrow B) \rightarrow (A \rightarrow C)]$

OR



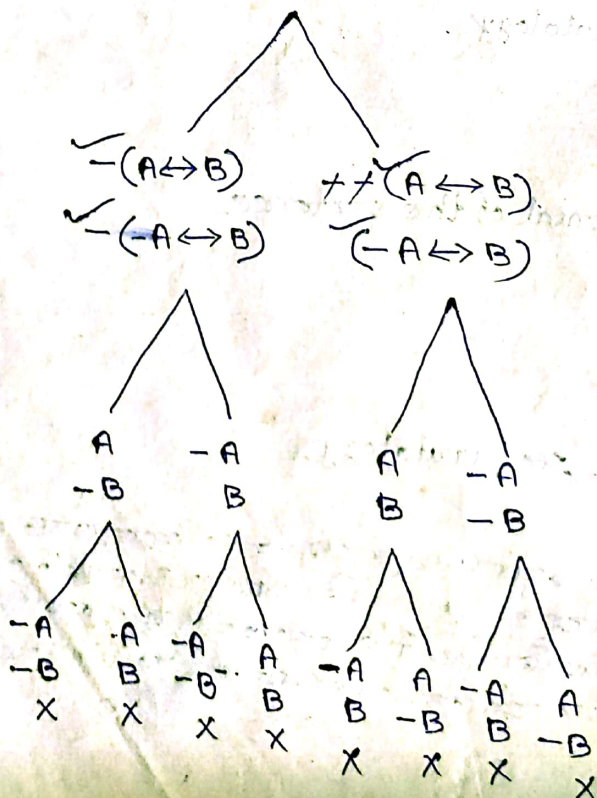
$\neg A \rightarrow B$   
 $\neg (A \rightarrow C)$



Tautology.

2)  $\neg (A \leftrightarrow B) \leftrightarrow (\neg A \leftrightarrow B)$

1)  $\neg [ \neg (A \leftrightarrow B) \leftrightarrow (\neg A \leftrightarrow B) ]$  - Denial of the sentence.



Tautology