Use the gappy truth table method to determine whether the following argument is valid:



Step 1: Determine in which rows the conclusion comes out false. Click on the question mark for assistance.

A	В	C	(A & (B v ~C))	<u>(C v (A & B))</u>	<u>~(A & C)</u>
Т	Т	Т			?
Т	Т	F			?
Т	F	Т			?
Т	F	F			?
F	Т	Т			?
F	Т	F			?
F	F	Т			?
F	F	F			?

Step 2: Compute the truth values for the premises on the rows where the conclusion is false:

A	B	C	(A & (B v ~C))	<u>(C v (A & B))</u>	<u>~(A & C)</u>
Т	Т	Т	?	?	F
Т	Т	F			
Т	F	Т	?	?	F
Т	F	F			
F	Т	Т			
F	Т	F			
F	F	Т			
F	F	F			

Step 3: Inspect your results and state the conclusion:

A	В	C	(A & (B v ~C))	<u>(C v (A & B))</u>	<u>~(A & C)</u>
Т	Т	Т	Т	Т	F
Т	Т	F			
Т	F	Т	F		F
Т	F	F			
F	Т	Т			
F	Т	F			
F	F	Т			
F	F	F			

Result: The first row is an invalidating row. Therefore the argument is invalid.

Do another?

Information about your selection will appear here.