Introduction to Logical Reasoning

Workshop on Assessing Arguments with Truth Tables

Part I: For each argument below, use the truth table method from class to determine whether it is valid or invalid.

1. 1. $p \rightarrow (q \,\&\, r)$
   2. $\sim p$
   ∴ $\sim r$

p	q	r	$q \,\&\, r$	$p \rightarrow (q \,\&\, r)$	$\sim p$	$\sim r$
T	T	T				
T	T	F				
T	F	T				
T	F	F				
F	T	T				
F	T	F				
F	F	T				
F	F	F				

2. 1. $p \vee q$
   2. $\sim p$
   ∴ q

3. 1. $p \rightarrow q$
   2. $q \rightarrow r$
   ∴ $p \rightarrow r$

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Part II: For each argument below, (i) translate the argument into the language of logic, putting it into its argumentative form, and (ii) use the truth table method from class to determine whether the argument is valid or invalid..

1. Is the Internet is killing journalism? Well, the Internet has widened the audience of news consumers and it has put more news at people's fingertips, and if these two things are true, then the Internet is not killing journalism. So, the Internet is not killing journalism.

2. Either the Internet is killing journalism or journalists are adapting. Well, if the internet is killing journalism, then the audience of news consumers should not widen. But the audience of news consumers is widening! Therefore, journalists are adapting.