

Bài 3 Hãy chỉ ra hằng đúng trong các dạng mệnh đề sau:

a.  $[\neg q \wedge (p \vee q)] \rightarrow q$  ???  
 $[q \wedge (p \vee q)] \rightarrow q$  !!!

p	q	$\neg q$	$p \vee q$	$\neg q \wedge (p \vee q)$	$q \wedge (p \vee q)$	$[\neg q \wedge (p \vee q)] \rightarrow q$	$[q \wedge (p \vee q)] \rightarrow q$
0	0	1	0	0	0	1	1
0	1	0	1	0	1	1	1
1	0	1	1	1	0	0	1
1	1	0	1	0	1	1	1

b.  $(p \wedge q) \rightarrow (p \rightarrow q)$

p	q	$(p \wedge q)$	$(p \rightarrow q)$	$(p \wedge q) \rightarrow (p \rightarrow q)$
0	0	0	1	1
0	1	0	1	1
1	0	0	0	1
1	1	1	1	1

c.  $[(p \rightarrow q) \wedge (q \rightarrow r)] \rightarrow (p \rightarrow r)$

p	q	r	$(p \rightarrow q)$	$(q \rightarrow r)$	$[(p \rightarrow q) \wedge (q \rightarrow r)]$	$(p \rightarrow r)$	$[(p \rightarrow q) \wedge (q \rightarrow r)] \rightarrow (p \rightarrow r)$
0	0	0	1	1	1	1	1
0	0	1	1	1	1	1	1
0	1	0	1	0	0	1	1
0	1	1	1	1	1	1	1
1	0	0	0	1	0	0	1
1	0	1	0	1	0	1	1
1	1	0	1	0	0	0	1
1	1	1	1	1	1	1	1