

Homework 3

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Truth Table Problem

p	r	$\sim p$	$p \wedge (\sim p)$	$(\sim p) \vee r$	$(p \wedge (\sim p)) \vee r$	$p \wedge ((\sim p) \vee r)$
1	1	0	0	1	1	1
1	0	0	0	0	0	1
0	1	1	0	1	1	1
0	0	1	0	1	0	1

Thus, $(p \wedge (\sim p)) \vee r \not\equiv p \wedge ((\sim p) \vee r)$.

Problems from 2.2