

Homework 2

1.

P	Q	R	$P \wedge R \rightarrow Q$	$R \vee \sim Q$	$Q \rightarrow P$	$P \wedge Q \rightarrow R$
T	T	T	T	T	T	T
T	T	F	T	F	T	F
T	F	T	F	T	T	T
T	F	F	T	T	T	T
F	T	T	T	T	F	T
F	T	F	T	F	F	T
F	F	T	T	T	T	T
F	F	F	T	T	T	T

2. Hypothesis 1: $(\sim M \wedge C) \rightarrow \sim T$

Hypothesis 2: $\sim C \rightarrow (\sim M \vee \sim T)$

Conclusion: $M \rightarrow C$

M	C	T	$(\sim M \wedge C) \rightarrow \sim T$	$\sim C \rightarrow (\sim M \vee \sim T)$	$M \rightarrow C$
T	T	T	T	T	T
T	T	F	T	T	T
T	F	T	T	F	F
T	F	F	T	T	F
F	T	T	F	T	T
F	T	F	T	T	T
F	F	T	T	T	T
F	F	F	T	T	T