

Homework One

Joseph Ivie – A01517220

1.1

A, b, and c are propositions (though “she” is not explicitly defined in b). D is not a proposition.

1.2

$$p \sim q$$

1.4

p	q	r	$\sim p \vee q$	$q \wedge \sim r$	$p \vee (\sim p \vee q)$	$\sim(q \wedge \sim r)$	$(p \vee (\sim p \vee q)) \wedge (\sim(q \wedge \sim r))$
T	T	T	T	F	T	T	T
T	T	F	T	T	T	F	F
T	F	T	F	F	T	T	T
T	F	F	F	F	T	T	T
F	T	T	T	F	T	T	T
F	T	F	T	T	T	F	F
F	F	T	T	F	T	T	T
F	F	F	T	F	T	T	T

1.8

There are no logical errors in the first ten lines of the program and it is being run with a complete data set.

1.9

The dollar is not at an all-time high or the stock is not at an all-time low.