Problem 9.1

Part a

Part b

Problem 9.2

Part a

X	Y	Z	(x+ y)((x+z)) + (x+ z)
T	T	T	
T	T	F	
T	F	T	
T	F	F	
F	T	T	
F	T	F	
F	F	T	
F	F	F	

Part b

X	Y	Z	(x+ y) + ((x+z) + (x+ z))
T	T	T	
T	T	F	
T	F	T	
T	F	F	
F	T	T	
F	T	F	
F	F	T	
F	F	F	

Part c

The approach of trying every possible combination **true/false** value in the expression does generalize to an unbounded number of variables. This is an incredibly inefficient algorithm that has a running time of $O(2^n)$ where n is the number of varaibles in the expression.