Boise State University Department of Electrical and Computer Engineering ECE 230 Digital Systems

Quiz 1– August 27, 2010

Name:

1. Complete the following truth table?

x	v	Z	xy	x + z	x+y+z	x + xy
0	0	0	0	0	0	0
0	0	1	0	1		0
0	1	0	0	0	l l	0
0	1	1	Q		- 1	0
1	0	0	Ü	(1	(
1	0	1	0	l	l	1
1	1	0	l		1	1
1	1	1			(

2. Using AND, OR, and NOT gates, implement (or draw!) f, where f = x + yz.

