Name: _____

CIS 351 Sample CL2 Problem

03 January 2022

CL2: Boolean Expressions

(a) Complete the truth table below so that it describes the output of the Boolean expression.

x	y	z	$(\overline{xy})(\bar{z})$
0	0	0	
0	0	1	
0	1	0	
0	1	1	
1	0	0	
1	0	1	
1	1	0	
1	1	1	

(b) Complete the truth table below so that it describes the output of the Boolean expression.

x	y	z	$xy + \bar{z}$
0	0	0	
0	0	1	
0	1	0	
0	1	1	
1	0	0	
1	0	1	
1	1	0	
1	1	1	

(c) Write a Boolean expression in sum-of-product form that describes the following truth table:

x	y	z	
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	1
1	1	1	1

Click here for solutions: `cl2_sample_solutions.pdf`