

Part A

Expected Outcomes

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a	b	c	(A+C)	AB	B'	AB'	(AB+AB')	AC	(A+C)(AB+AB')	(A+C)(AB+AB')+AC+C
0	0	0	0	0	1	0	0	0	0	0
0	0	1	1	0	1	0	0	0	0	1
0	1	0	0	0	0	0	0	0	0	0
0	1	1	1	0	0	0	0	0	0	1
1	0	0	1	0	1	1	1	0	1	1
1	0	1	1	0	1	1	1	1	1	1
1	1	0	1	1	0	0	1	0	1	1
1	1	1	1	1	0	0	1	1	1	1
Results										
a	b	c	(A+C)	AB	B'	AB'	(AB+AB')	AC	(A+C)(AB+AB')	(A+C)(AB+AB')+AC+C
0	0	0	0	0	1	0	0	0	0	0
0	0	1	1	0	1	0	0	0	0	1
0	1	0	0	0	0	0	0	0	0	0
0	1	1	1	0	0	0	0	0	0	1
1	0	0	1	0	1	1	1	0	1	1
1	0	1	1	0	1	1	1	1	1	1
1	1	0	1	1	0	0	1	0	1	1
1	1	1	1	1	0	0	1	1	1	1