

Exercise 5.1

a.

A	B	NON B	A ET NON B	S = NON (A ET NON B)
0	0	1	0	1
0	1	0	0	1
1	0	1	1	0
1	1	0	0	1

b.

A	B	C	NON C	B ET NON C	S = A OU (B ET NON C)
0	0	0	1	0	0
0	0	1	0	0	0
0	1	0	1	1	1
0	1	1	0	0	0
1	0	0	1	0	1
1	0	1	0	0	1
1	1	0	1	1	1
1	1	1	0	0	1

c.

A	B	C	D	E = A ET NON B	NON C	F = NON C XOR D	S = E OU F
0	0	0	0	0	1	1	1
0	0	0	1	0	1	0	0
0	0	1	0	0	0	0	0
0	0	1	1	0	0	1	1
0	1	0	0	0	1	1	1
0	1	0	1	0	1	0	0
0	1	1	0	0	0	0	0
0	1	1	1	0	0	1	1
1	0	0	0	1	1	1	1
1	0	0	1	1	1	0	1
1	0	1	0	1	0	0	1
1	0	1	1	1	0	1	1
1	1	0	0	0	1	1	1
1	1	0	1	0	1	0	0
1	1	1	0	0	0	0	0
1	1	1	1	0	0	1	1