

For a

DC \ BA	00	01	11	10
00	1	0	1	1
01	0	1	1	1
11	x	x	x	x
10	1	1	x	x

$$aB = D + AC + \cancel{B\bar{A}\bar{C}} + B$$

For b

DC \ BA	00	01	11	10
00	1	1	1	1
01	1	0	1	0
11	x	x	x	x
10	1	1	x	x

$$b = c' + A'B' + AB$$

For c

DC \ BA	00	01	11	10
00	1	1	1	0
01	1	1	1	1
11	x	x	x	x
10	1	1	x	x

$$c = A + B' + c$$

For d

DC \ BA	00	01	11	10
00	1	0	1	1
01	0	1	0	1
11	x	x	x	x
10	1	1	x	x

$$d = A'C' + BC' + BA' + AB'C + D$$

For e

DC \ BA	00	01	11	10
00	1	0	0	1
01	0	0	0	1
11	x	x	x	x
10	1	0	x	x

$$e = A'B + A'C'$$

For f

DC \ BA	00	01	11	10
00	1	0	0	0
01	1	1	0	1
11	x	x	x	x
10	1	1	x	x

$$f = B'C + A'B' + D + CA'$$

For g

DC \ BA	00	01	11	10
00	0	0	1	1
01	1	1	0	1
11	x	x	x	x
10	1	1	x	x

$$g = A'B + BC' + B'C' + D$$

