

a

CD \ AB	00	01	11	10
00	1	0	1	1
01	0	1	1	1
11	X	X	X	X
10	1	1	X	X

$$a = BD + C + A + \bar{B}\bar{D}$$

b

CD \ AB	00	01	11	10
00	1	1	1	1
01	1	0	1	0
11	X	X	X	X
10	1	1	X	X

$$b = \bar{B} + \bar{C}\bar{D} + CD$$

c

CD \ AB	00	01	11	10
00	1	1	1	0
01	1	1	1	1
11	X	X	X	X
10	1	1	X	X

$$c = \bar{C} + CD + \bar{A}B$$

d

CD \ AB	00	01	11	10
00	1	0	1	1
01	0	1	0	1
11	X	X	X	X
10	1	1	X	X

$$d = \bar{B}\bar{D} + \bar{B}C + C\bar{D} + \bar{A}\bar{B}$$

e

CD \ AB	00	01	11	10
00	1	0	0	1
01	0	0	0	1
11	X	X	X	X
10	1	0	X	X

$$e = \bar{B}\bar{D} + C\bar{D}$$

f

CD \ AB	00	01	11	10
00	1	0	0	0
01	1	1	0	1
11	X	X	X	X
10	1	1	X	X

$$f = \bar{C}\bar{D} + B\bar{C} + B\bar{D} + A$$

g

CD \ AB	00	01	11	10
00	0	0	1	1
01	1	1	0	1
11	X	X	X	X
10	1	1	X	X

$$g = A + B\bar{C} + C\bar{D} + \bar{B}C$$