

Mary Wronski:

1) Dla  $a_1$ :

$$a_1 = A + C + D \cdot B + \bar{D} \cdot \bar{B}$$

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

2) Dla  $a_2$ :

$$a_2 = \bar{B} + \bar{D} \cdot \bar{C} + D \cdot C$$

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

Analogicznie dla pozostałych wyrażeń

$$a_3 = \bar{C} + D + B$$

$$a_4 = A + \bar{D} \cdot C + C \cdot \bar{B} + D \cdot \bar{C} \cdot B + \bar{D} \cdot \bar{B}$$

$$a_5 = \bar{D} \cdot C + \bar{D} \cdot \bar{B}$$

$$a_6 = \bar{D} \cdot \bar{C} + B + A$$

$$a_7 = \bar{C} \cdot \bar{B} + A + \bar{D} \cdot C + C \cdot \bar{B}$$