

Mary Wernough: $A, B, C \oplus D$ usfry $B \oplus D$

1) Dla a_1 :

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

| 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 :

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

| 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 |

Analogicne dla pozostazych wyrazen

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

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

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

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

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