

Zad. 1

$$98273_{10} \rightarrow 35966_{13}$$

Gr 12

Zad. 2

$$(\sim A \vee C) (A \wedge B \vee \sim A \vee \sim B \vee A \wedge C)$$

$$[\sim A \wedge A \wedge B \vee \sim A \vee \sim A \vee \sim A \wedge \sim B \vee \sim A \wedge A \wedge C] \vee [C \wedge A \wedge B \vee C \wedge \sim A \vee C \wedge \sim B \vee C \wedge A \wedge C]$$

$$\underbrace{[\sim A \wedge A \wedge B]}_0 \vee \underbrace{[\sim A \vee \sim A]}_{\sim A} \vee \underbrace{[\sim A \wedge \sim B]}_0 \vee \underbrace{[\sim A \wedge A \wedge C]}_0 \vee \underbrace{[C \wedge A \wedge B]}_{ABC} \vee \underbrace{[C \wedge \sim A]}_{AC} \vee \underbrace{[C \wedge \sim B]}_{AC} \vee \underbrace{[C \wedge A \wedge C]}_{AC}$$

$$\sim A \vee \sim A \wedge B \vee ABC \vee C \wedge \sim A \vee C \wedge \sim B \vee A \wedge C$$

$$\sim A \vee C \wedge \sim A \vee \sim A \wedge \sim B \vee C \wedge \sim B \vee ABC \vee AC$$

$$\sim A (\underbrace{1 \vee C \vee \sim B}_1) \vee C \wedge \sim B \vee ABC \vee AC$$

$$\sim A \vee C \wedge \sim B \vee ABC \vee AC$$

Zad. 3

| AB \ CD | 00 | 01 | 11 | 10 |
|---------|----|----|----|----|
| 00 | 0 | 1 | 1 | 0 |
| 01 | 0 | 1 | 1 | 1 |
| 11 | 0 | 1 | 0 | 1 |
| 10 | 0 | 1 | 1 | 0 |

c) Funkcja Logiczna: $C'D + A'B$

d) Porównanie:
 tabela prawdy tabela Karna

| | 0 | 1 |
|---|---|---|
| 0 | 0 | 0 |
| 1 | 1 | 1 |
| 0 | 0 | 0 |
| 1 | 1 | 1 |
| 0 | 0 | 0 |
| 1 | 1 | 1 |
| 0 | 0 | 0 |