

$$\begin{array}{r} \textcircled{1} \quad (98273)_{10} \\ 7559 \\ 581 \\ 44 \\ 3 \end{array} \Bigg| \begin{array}{r} 13 \\ \hline 6 \\ 6 \\ 9 \\ 5 \\ 3 \end{array}$$

$$(98273)_{10} = 35966$$

$$\begin{aligned} \textcircled{2} \quad & (\sim A + C)(AB + \sim A \sim B + AC) = \sim A(AB + \sim A \sim B + AC) + \\ & + C(AB + \sim A \sim B + AC) = \sim AAB + \sim A \sim A \sim B + \sim AAC + \\ & + CAB + C \sim A \sim B + ACC = 0 \cdot B + \sim A \sim B + 0 \cdot C + \\ & + CAB + \cancel{C} \sim A \sim B + AC = \sim A \sim B + \sim A \sim B + AC(B + 1) = \\ & = \sim A \sim B + AC \end{aligned}$$

3)

A	B	C	D	F
0	0	0	0	0
0	0	0	1	1
0	0	1	0	0
0	0	1	1	1
0	1	0	0	0
0	1	0	1	1
0	1	1	0	0
0	1	1	1	1
1	0	0	0	0
1	0	0	1	1
1	0	1	0	0
1	0	1	1	1
1	1	0	0	0
1	1	0	1	1
1	1	1	0	0
1	1	1	1	1

		CD			
		00	01	11	10
AB	00		1.	1.	
	01			2.	2.
	11	3.	3.		
	10	4.			4.

Uproszczenie:

$$\begin{aligned}
 & (\sim A \sim B D) + (\sim A B C) + (A B \sim C) + (A \sim B \sim D) = \\
 & = \sim A (\sim B D + B C) + A (B \sim C + \sim B \sim D)
 \end{aligned}$$