

zad 1

$$(98273)_{10} = (35966)_{13}$$

98273	13	6	↑
7559	13	6	
581	13	9	
44	13	5	
3	13	3	
0			

zad 2

$$(\sim A + C)(AB + \sim A \sim B + AC) = \underbrace{\sim AAB}_{=0} + \underbrace{\sim A \sim A \sim B}_{=\sim A} + \underbrace{\sim AAC}_{=0} + CAB + C \sim A \sim B + \underbrace{AC}_{=C}$$

~~$\sim A + C$~~ ~~$A/B \sim A$~~

$$= \sim A \sim B + CAB + C \sim A \sim B + AC = \sim A (\underbrace{\sim B + \sim B C}_{\sim B}) + \underbrace{AC(B+1)}_{AC} =$$

~~$\sim A \sim B + ABC$~~

$\sim A \sim B + AC$

zad 3

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

f = ?

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