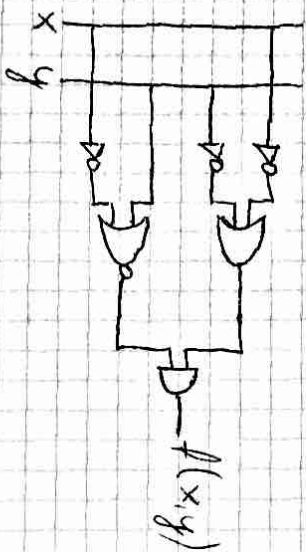


not a true demerit

not 1

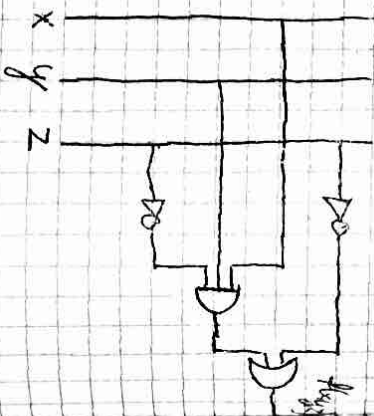
a) $f(x,y) = (\sim x \vee \sim y) \wedge (\sim(y \vee \sim x))$

x	y	$\sim x \vee \sim y$	$y \vee \sim x$	$\sim(y \vee \sim x)$	$f(x,y)$
0	0	1	1	0	0
0	1	1	1	0	0
1	0	1	0	1	1
1	1	0	1	0	0



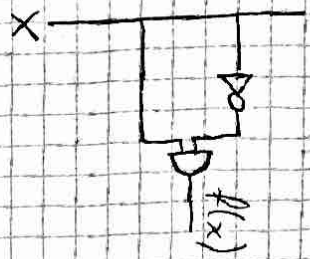
b) $f(x,y,z) = \sim z \vee (x \wedge y \wedge \sim z)$

x	y	z	$\sim z$	$x \wedge y \wedge \sim z$	$f(x,y,z)$
0	0	0	1	0	1
0	0	1	0	0	0
0	1	0	1	0	0
0	1	1	0	0	0
1	0	0	1	0	0
1	0	1	0	0	0
1	1	0	1	1	1
1	1	1	0	0	0



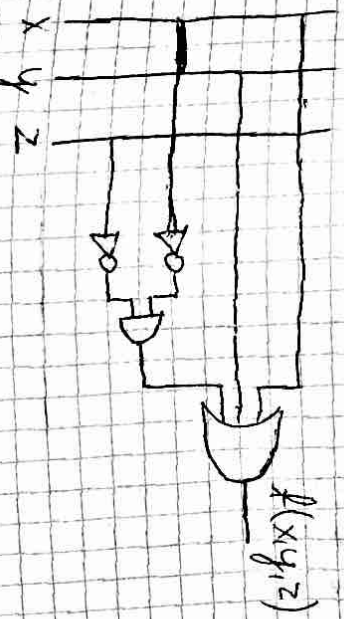
d) $f(x) = \sim x \wedge x$

x	$\sim x$	$f(x)$
0	1	0
1	0	0



e) $f(x,y,z) = x \vee y \vee (\sim x \wedge \sim z)$

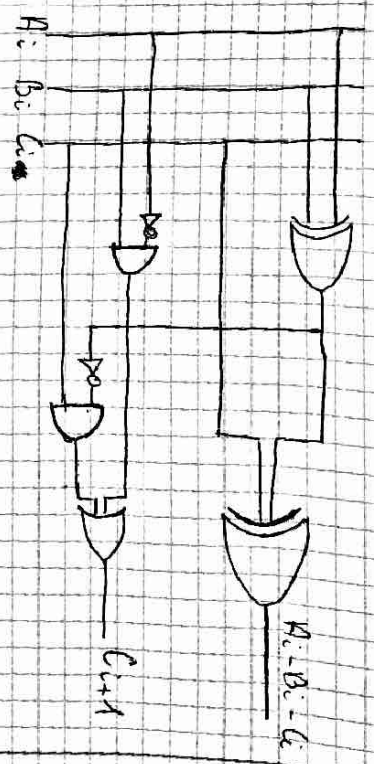
x	y	z	$\sim x \wedge \sim z$	$f(x,y,z)$
0	0	0	1	1
0	0	1	0	0
0	1	0	1	1
0	1	1	0	1
1	0	0	0	1
1	0	1	0	1
1	1	0	0	1
1	1	1	0	1



radaruse 3

$$P(a|b|c) = \sim(a \wedge b \wedge c) \wedge (a \vee b \vee c) \wedge (a \wedge \sim b) \wedge (a \wedge \sim c) \wedge (b \wedge \sim c)$$

a	b	c	$\sim(a \wedge b \wedge c)$	$(a \vee b \vee c)$	$(a \wedge \sim b)$	$(a \wedge \sim c)$	$(b \wedge \sim c)$
0	0	0	1	1	0	0	0
0	0	1	1	1	0	0	1
0	1	0	1	1	0	1	0
0	1	1	1	1	0	1	0
1	0	0	0	0	1	0	0
1	0	1	0	0	1	1	0
1	1	0	0	0	0	0	1
1	1	1	0	0	0	0	0



radaruse 2

$$\frac{1011}{1101} = 1011$$

Ai	Bi	Cin	Ai - Bi - Cin	Cin
0	0	0	0	0
0	1	0	1	1
1	0	0	1	0
1	1	0	0	0
0	0	1	1	1
0	1	1	0	1
1	0	1	0	1
1	1	1	1	0

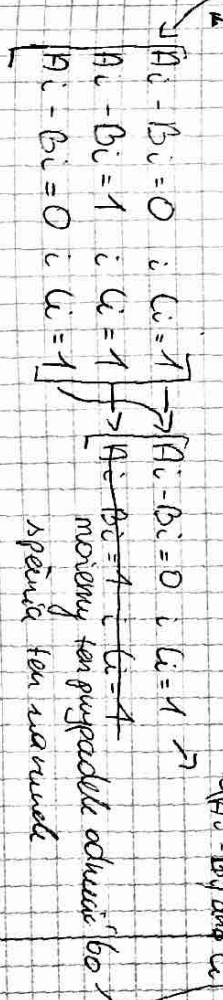
Ai	Bi	Ai - Bi
0	0	0
0	1	1
1	0	1
1	1	0

XOR

Ai - Bi	Ai - Bi - Ci	Ai - Bi - Ci
0	0	0
1	1	1
1	0	0
0	1	1

Ci+1 ma invertor i 1 luedy

- Ai = 0, Bi = 1 i Ci = 0 → $\sim(A_i \text{ and } B_i)$
- Ai = 0, Bi = 0 i Ci = 1 → OR bo kava ispechuyung 2 Ci
- Ai = 1, Bi = 1 i Ci = 1



maionny ten gupradle odhuvic bo spreve ten naruvud