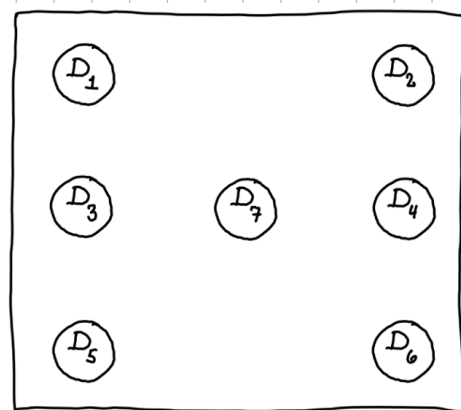


ETZ 22

Oppg 2)

Resultat

	D ₁	D ₂	D ₃	D ₄	D ₅	D ₆	D ₇
1	0	0	0	0	0	0	0
2	0	1	0	0	1	0	0
3	1	0	0	0	0	1	1
4	1	1	0	0	1	1	0
5	1	1	0	0	1	1	1
6	1	1	1	1	1	1	0



Oppg 5)

Resultat av beregning

	T ₁	T ₂	T ₃	D ₁	D ₂	D ₃	D ₄	D ₅	D ₆	D ₇
1	0	0	1	0	0	0	0	0	0	1
2	0	1	0	0	1	0	0	1	0	0
3	0	1	1	1	0	0	0	0	1	1
4	1	0	0	1	1	0	0	1	1	0
5	1	0	1	1	1	0	0	1	1	1
6	1	1	0	1	1	1	1	1	1	0

Oppg 3) $V_D = 2V$ $I_D = 20mA$ $V_{DD} = 5V$

$$V_{DD} = V_D$$

$$V_{DD} - V_D = IR$$

$$R = \frac{3V}{20 \cdot 10^{-3}} = 150\Omega$$

Oppg 4) $P = UI$ $U = \frac{3}{2}$

$$P_R = \frac{I^2}{R} = \frac{20 \cdot 10^{-3}}{150} \cdot u$$

$$P_D = 2 = 20 \cdot 10^{-3} \cdot u$$

Oppg 6)

Resultat av kort

	T_1	T_2	T_3	U_1	U_2	U_3	U_4	U_5	U_6	U_7
1	0	0	1	0	0	0	0	0	0	1
2	0	1	0	1	0	0	0	0	1	0
3	0	1	1	1	0	0	0	0	1	1
4	1	0	0	1	1	0	0	1	1	0
5	1	0	1	1	1	0	0	1	1	1
6	1	1	0	1	1	1	1	1	1	0

$$U_1 = T_1 + T_2$$

$$U_2 = T_1$$

$$U_3 = T_1 T_2$$

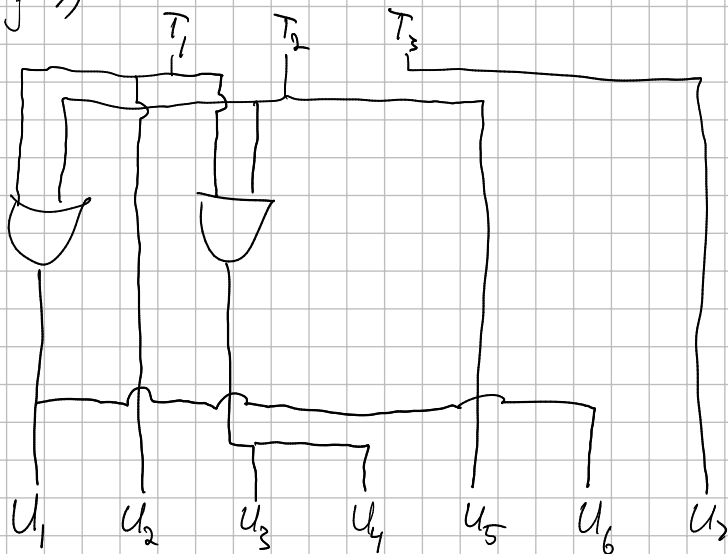
$$U_4 = T_1 T_2$$

$$U_5 = T_2$$

$$U_6 = T_1 + T_2$$

$$U_7 = T_3$$

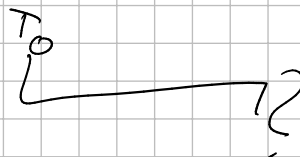
Oppg 7)



Oppg 9)

T_2	T_1	T_0	F
0	0	1	0
0	1	0	0
1	0	0	0
1	1	0	1

$$F = T_2 T_1$$



Oppløst

K	T_2	T_1	T_0	C_1	C_2
0	0	0	0	X	X
0	0	0	1	/	0
0	0	1	0	/	0
0	0	1	1	/	0
0	1	0	0	/	0
0	1	0	1	/	0
0	1	1	0	/	/
0	1	1	1	X	X
1	0	0	0	X	X
1	0	0	1	0	0
1	0	1	0	0	0
1	0	1	1	0	0
1	1	0	0	0	0
1	1	0	1	0	0
1	1	1	0	0	0
1	1	1	1	X	X

