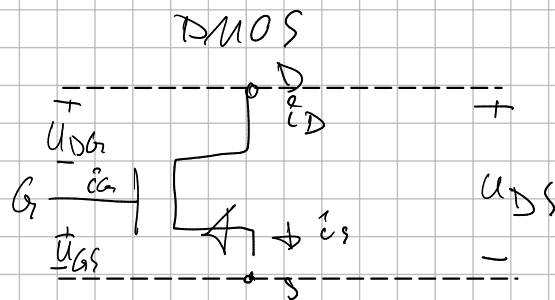
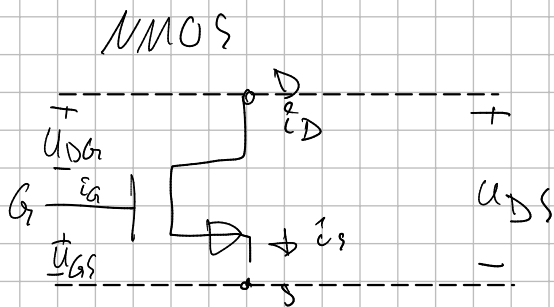


ERT 4

Oppg 2)



$$\hat{c}_D + \hat{c}_G = \hat{c}_S$$

$$\hat{c}_D = \hat{c}_S - \hat{c}_G$$

$$\hat{c}_D + \hat{c}_G = -\hat{c}_S$$

$$\hat{c}_D = -\hat{c}_G - \hat{c}_S$$

Oppg 3)

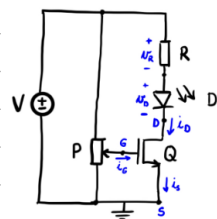
$$U = U_1 + U_2$$

$$U_{DG} - U_{GS} = U_{DS}$$

$$U_{DS} = U_{DS} + U_{GS}$$

Like ? ?

Oppg 6)



$V = 10 \text{ V}$   
 $R = 330 \Omega \text{ } 3300 \Omega$   
 P - potensiometer  
 D - lysdiode  
 Q - NMOS-transistor

Figur 3: Krets med NMOS-transistor.

u_GS [V]	u_R [V]	i_D [mA]
10.01	8.10	
9.19	8.10	
8.10	8.11	
6.47	8.10	
5.67	8.10	
4.31	8.10	
3.24	8.11	
2.33	8.10 (Fyll styrke)	
1.98	1.55 (Lyser såvidt)	
1.71	0.06 (Lyser ikke)	
0	0	

$$\hat{c}_D + \hat{c}_G = \hat{c}_S$$

$$\hat{c}_D = \hat{c}_S - \hat{c}_G$$

$$U = R \hat{c}$$

$$\hat{c}_D = \frac{U}{R}$$

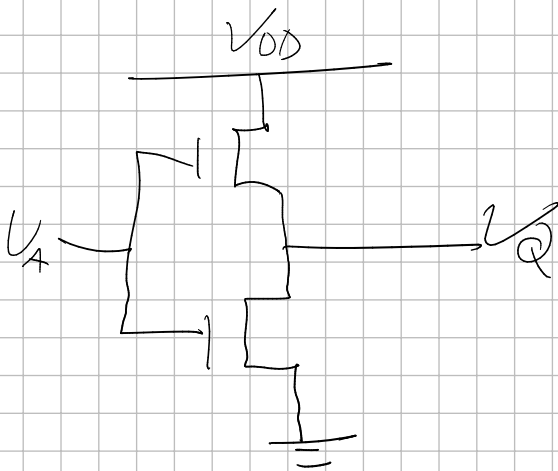
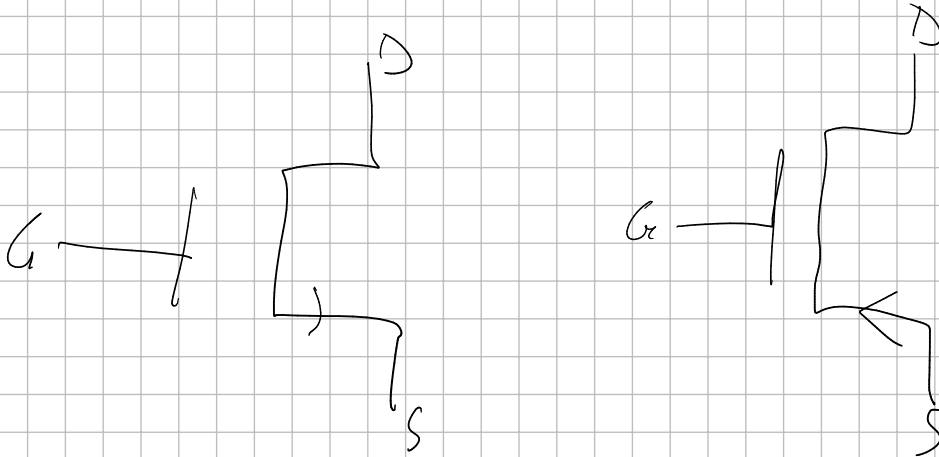
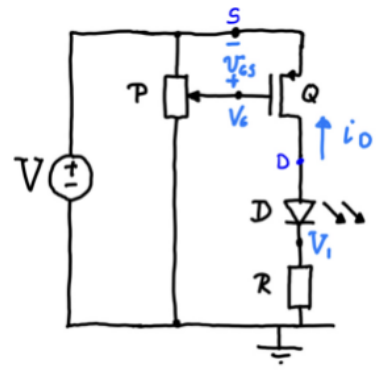
$$\hat{c}_D = 1.235 \text{ mA}$$

Übung 11)

$$U = u_{GS} + u_i$$

$$u_{GS} = U - u_i$$

$$E_D = -\frac{u_i}{1}$$



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