

$$V_+ = 2V$$

$$I_{tot} = \frac{5V}{R_1 + R_2}$$

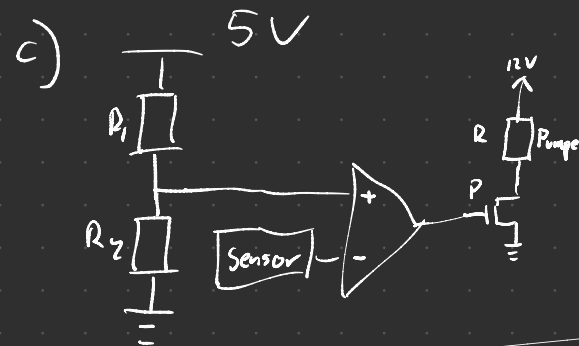
$$\frac{5V}{R_1 + R_2} \cdot R_1 = 3V \Rightarrow 5R_1 = 3R_1 + 3R_2$$

$$\underline{\underline{\frac{R_1}{R_2} = \frac{3}{2}}}$$

$$5 - V_{R_1} = 2$$

$$V_{R_1} = 3$$

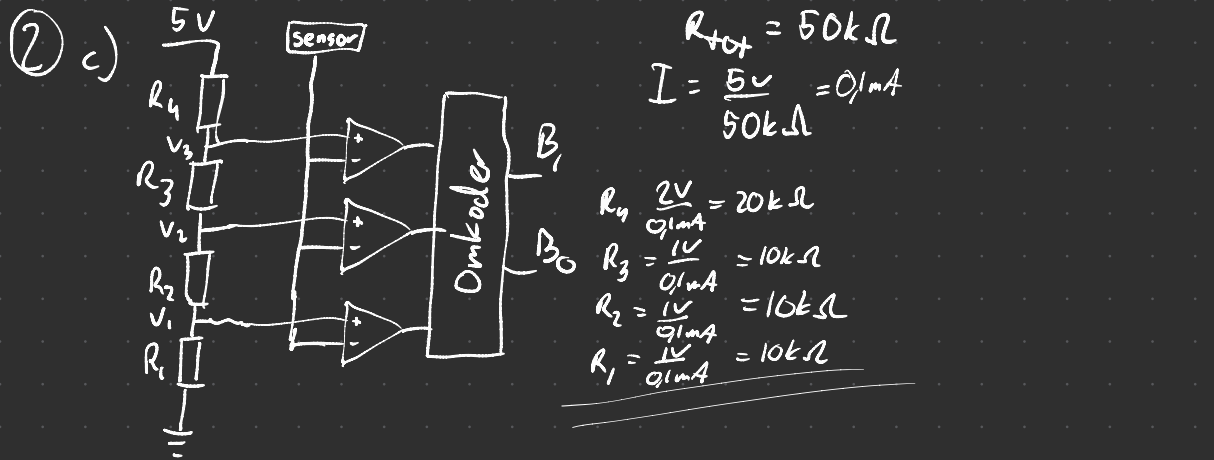
b) Det vil gi negative spenningsverdier for $V_- > 2$



② a) $V_1 = 1V$
 $V_2 = 2V$ for at ønsket
 $V_3 = 3V$ oppnåes

b)

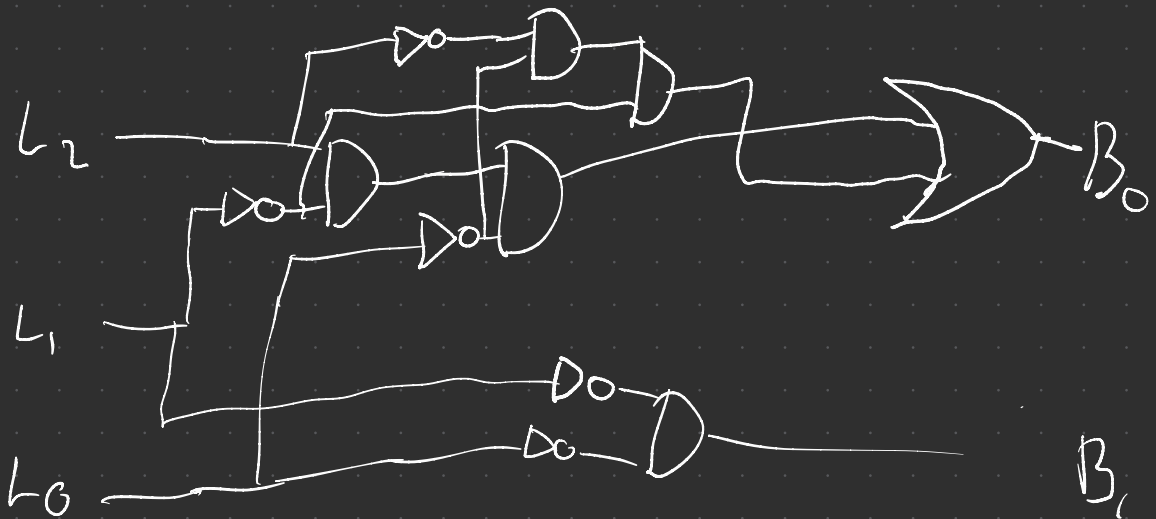
V_3	L_1	L_2	L_3	B_1	B_2	Lystarge
0 → 1	1	1	1	0	0	Rødt
1 → 2	1	1	0	0	1	Gult
2 → 3	1	0	0	1	0	Grønt
3 +	0	0	0	1	1	Blått



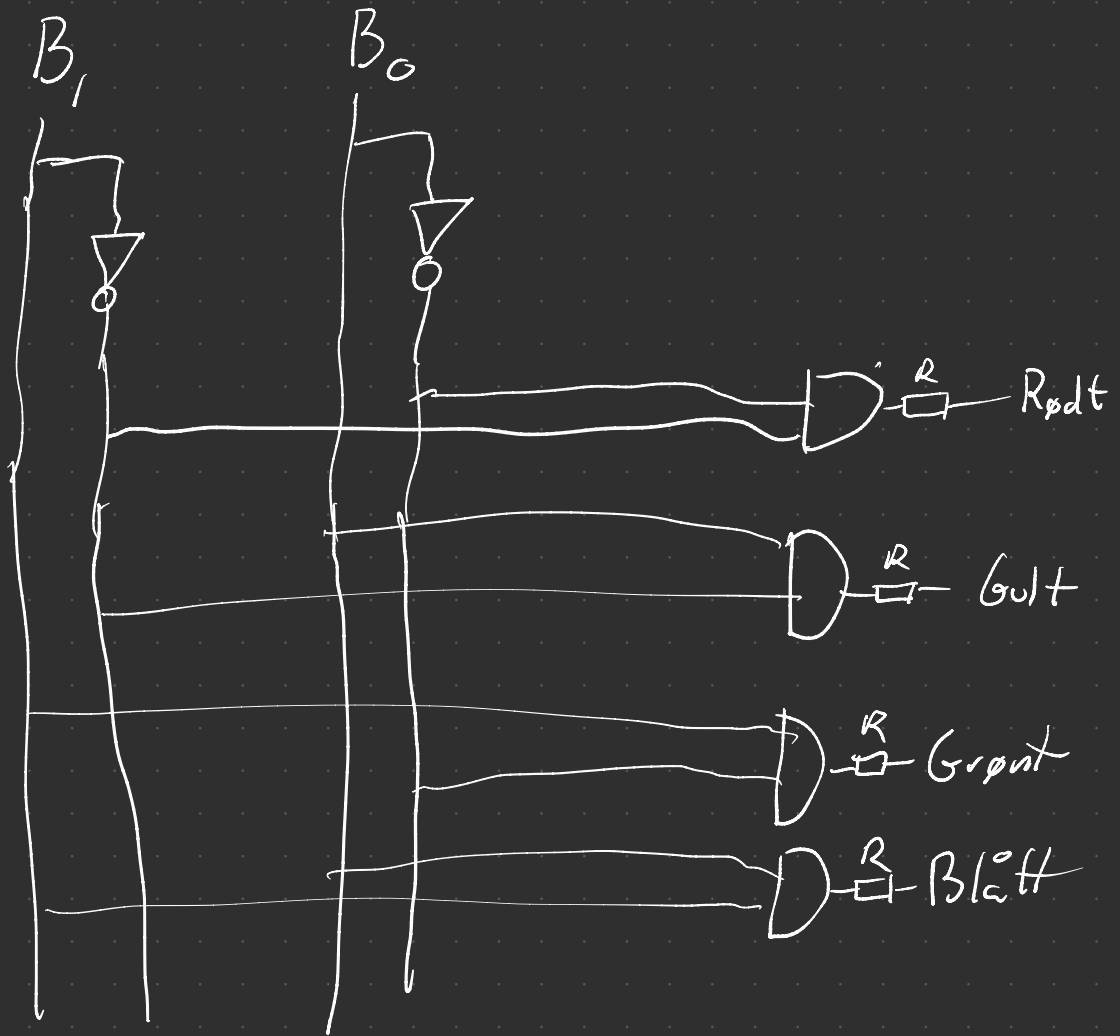
d)

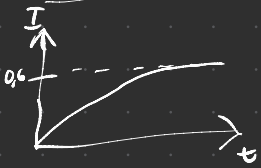
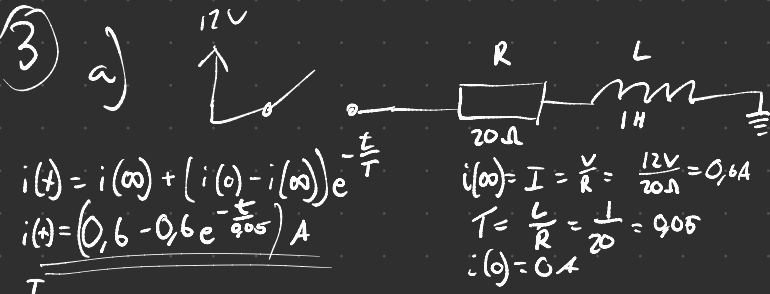
$$B_0 = L_2 \bar{L}_1 \bar{L}_0 + \bar{L}_2 \bar{L}_1 \bar{L}_0$$

$$B_1 = L_2 \bar{L}_1 \bar{L}_0 + \bar{L}_2 \bar{L}_1 \bar{L}_0 = \bar{L}_1 \bar{L}_0 (L_2 + \bar{L}_2) = \bar{L}_1 \bar{L}_0$$



② e) $R_{pdt} = \bar{B}_1 \bar{B}_0$ $Gult = \bar{B}_1 B_0$ $Grønt = B_1 \bar{B}_0$ $Blatt = B_1 B_0$





b) $v_r(t) = 20\Omega \cdot i(t) = 12 - 12e^{-\frac{t}{0,05}} \text{ V}$

