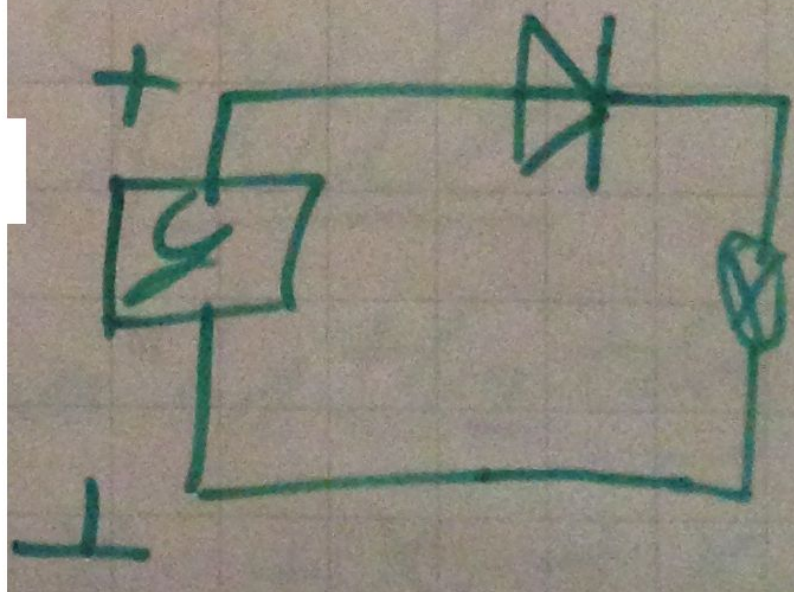
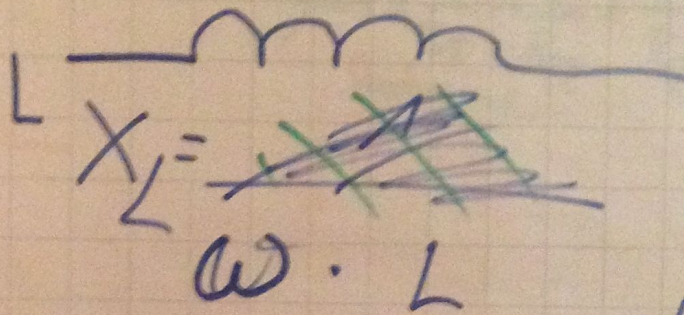
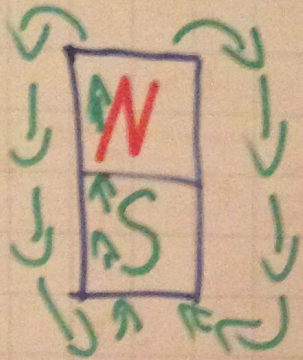
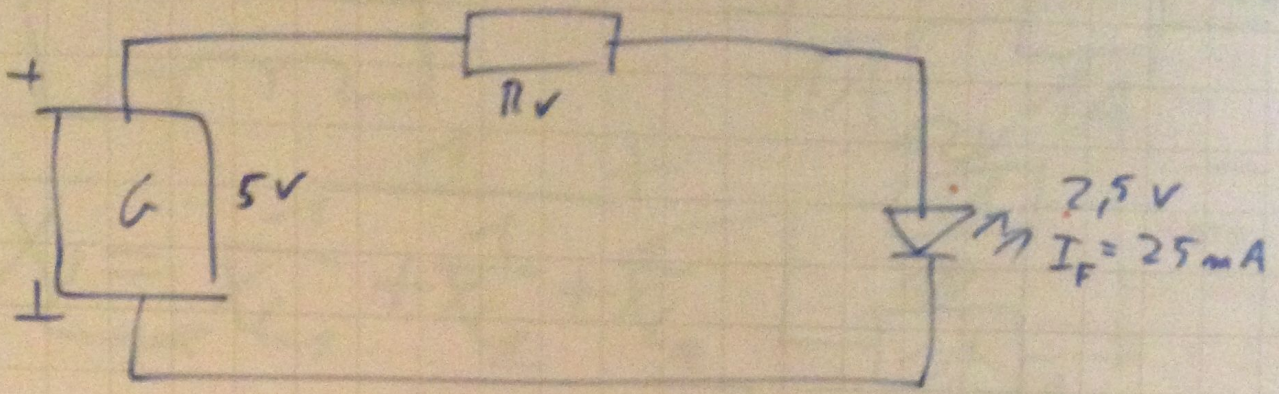


$$R_{ges} = R_1 + R_2 + R_n$$



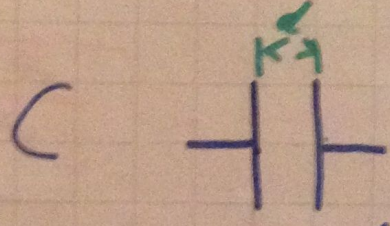
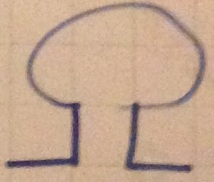


$$R = \frac{U}{I} = \frac{2,5V}{25mA} = 100\Omega$$



$$X_L = f \uparrow X \uparrow$$

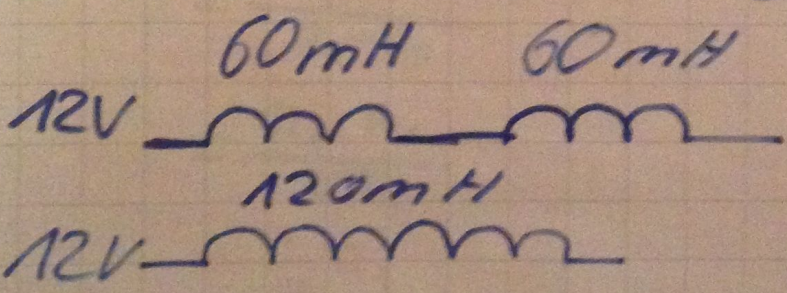
$$\omega = 2 \cdot f \cdot \pi$$



$$X_C = f \uparrow X \downarrow$$

$$\uparrow C = A \uparrow$$

$$\downarrow C = d \uparrow$$



Spule

$$L_{ges} = L_1 + L_2 + L_3$$

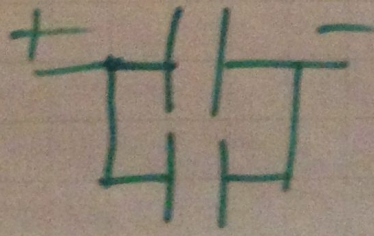
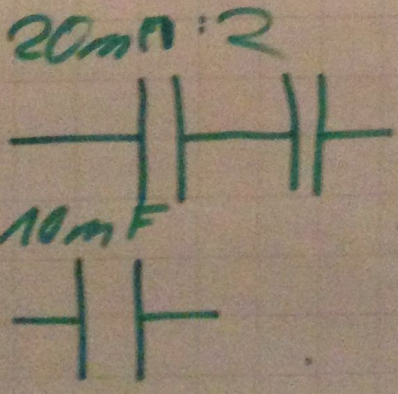
$$X_L = X_{L1} + X_{L2} + X_{L3}$$

Kondensator

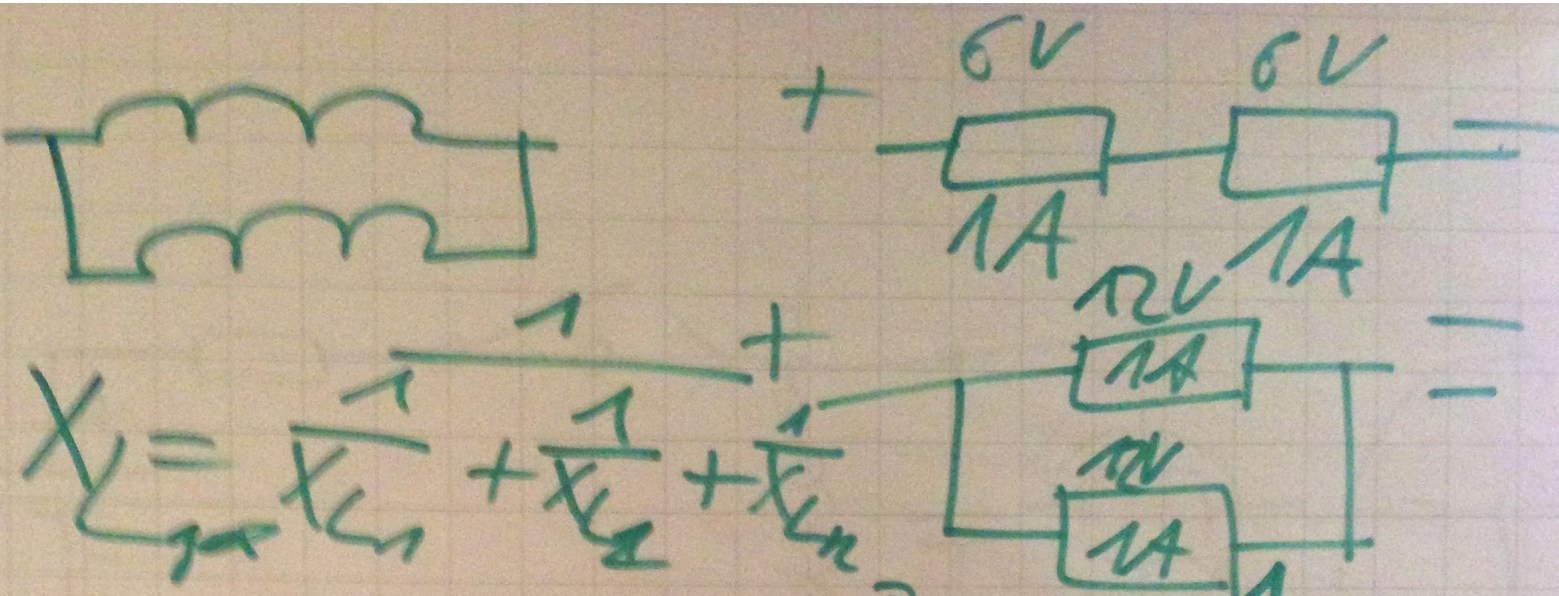
$$C_{ges} = \frac{1}{\frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_n}}$$

Parallel

$$C_{ges} = C_1 + C_2 + C_3$$







$$X_L = \frac{1}{\frac{1}{X_{L1}} + \frac{1}{X_{L2}} + \frac{1}{X_{L3}}}$$

$$R_{ges} = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}}$$

~~$\frac{R_1 \cdot R_2}{R_1 \cdot R_2}$~~

$$R_{ges} = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2}}$$

$$= \frac{R_1 \cdot R_2}{\frac{R_1 \cdot R_2}{R_1} + \frac{R_1 \cdot R_2}{R_2}}$$

$$= \frac{R_1 \cdot R_2}{R_1 + R_2}$$

$$= \frac{R_1 \cdot R_1}{R_1 + R_1}$$

$$= \frac{R_1 \cdot R_1}{2R_1}$$

$$= \frac{1}{2} R_1$$

$$| R_1 = R_2$$