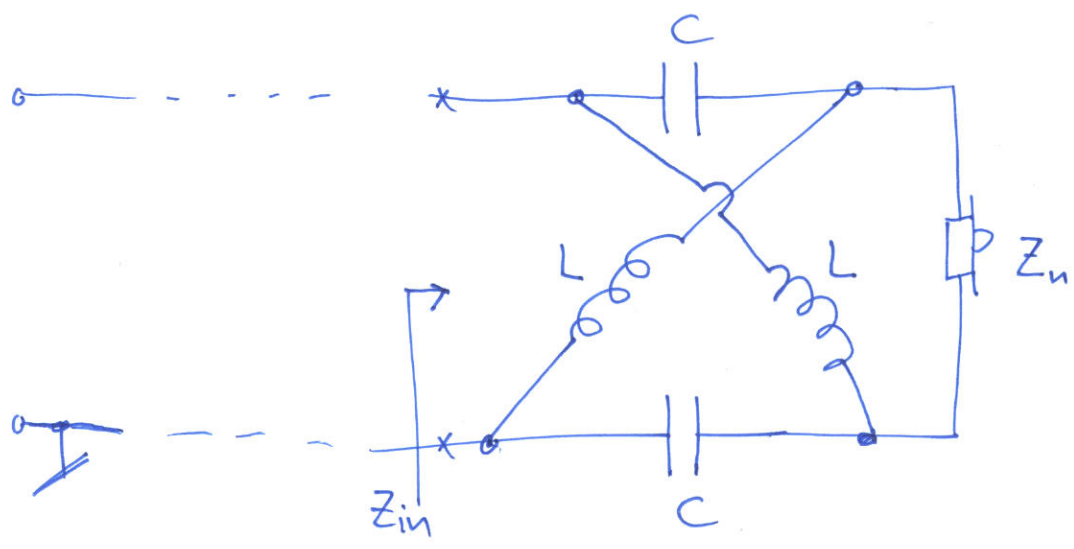
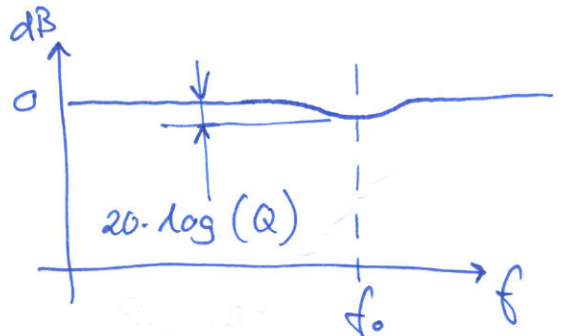


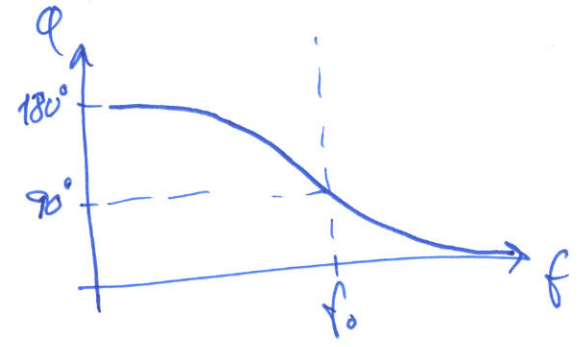
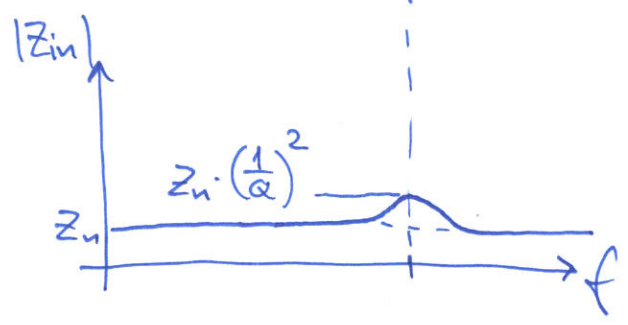
All-pass filter (delay network)



$$\omega_0^2 = \frac{1}{LC} \Rightarrow f_0 = \frac{1}{2\pi\sqrt{L \cdot C}}$$



$$Q = \omega_0 \cdot C \cdot Z_n = 2\pi f_0 \cdot C \cdot Z_n$$



Gruppeløbetid v. f_0 : $t_{gd} = \frac{Q}{\omega_0} = \frac{Q}{2\pi f_0} = Z_n \cdot C$

Ved at bytte om på L og C (fysisk) fås samme frekvensrespons, Q, t_{gd} og Z_{in} , men fasen (ϕ) bliver nu :

Samme formler gælder!

