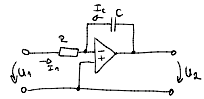


$$H_m = \frac{2\pi}{\mu_0}$$

3.



$$I_1 = -I_C$$

$$\frac{U_1}{R} = -C \frac{dU_2}{dt}$$

$$U_2(t) = -\frac{1}{C} \int_0^t i_{in}(t) dt + U_2(0)$$