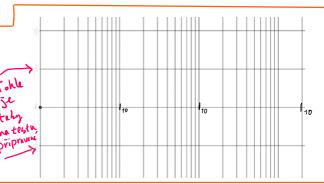


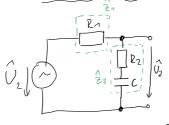
$$R_1 = 90 k R$$

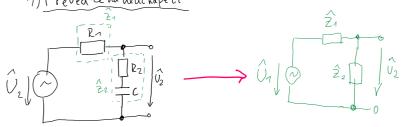
$$R_2 = 104 \Omega$$

$$C = 2 n F$$



Postup:





$$\hat{z}_1 = \hat{z}_{R1} = R_1$$

$$\hat{Z}_2 = \hat{Z}_{22} + \hat{Z}_c = \hat{R}_2 + \frac{1}{\sqrt{3}WC} = \frac{1+jwR_2C}{jwc}$$

Ppřevedeno

na spol. jme novatel

se riové zapojemí kondenzátorů

= \hat{Z}_c

3) Sporte te Û2(Û1)

$$\hat{\mathbb{Q}}_{2} = \hat{\mathbb{Q}}_{1} \cdot \frac{\hat{\mathbb{Z}}_{2}}{\hat{\mathbb{Z}}_{1} + \hat{\mathbb{Z}}_{2}} = \hat{\mathbb{Q}}_{2} \cdot \frac{\frac{1+jwR_{2}C}{jwC}}{\mathbb{Q}_{1} + \frac{1+jwR_{2}C}{jwC}} = \hat{\mathbb{Q}}_{1} \cdot \frac{\frac{1+jwR_{2}C}{jwC}}{\frac{jwR_{1}C+1+jwR_{2}C}{jwC}} = \hat{\mathbb{Q}}_{1} \cdot \frac{\frac{1+jwR_{2}C}{jwC}}{\frac{jwR_{1}C+1+jwR_{2}C}{jwC}} = \hat{\mathbb{Q}}_{1} \cdot \frac{1+jwR_{2}C}{jwC} = \hat{\mathbb{Q}}_{1} \cdot \frac{1+jwC}{jwC} = \hat{\mathbb{Q}}_{1} \cdot \frac{1+jwC}{jwC} = \hat{\mathbb{Q}}_{1} \cdot \frac{1+jwC}{jwC} =$$

a)
$$\hat{U}_2 = \hat{U}_1 \cdot \frac{1 + j w R_2 C}{1 + j w (R_1 C + R_2 C)}$$
 /: \hat{U}_1

b)
$$\hat{P}(jw) = \frac{\hat{O}_2}{\hat{O}_1} = \frac{1 + jw R_2 C}{1 + jw (R_1 C + R_2 C)} = \frac{1 + jw R_2 C}{1 + jw (R_2 C)}$$

$$\frac{1}{w_{02}} = \left[C \cdot (R_1 + R_2) \right]$$

$$j \frac{\omega}{\omega_{01}} = j w R_2 (/: j \cdot p_j \neq 0 <=> j = \sqrt{-1} v^2$$

$$\frac{\omega}{\omega_{01}} = \omega R_2 c /: \omega \cdot \nabla \omega > 0 < \sqrt{2}$$

$$\frac{1}{w_{02}} = \frac{1}{(R_1 + R_2)} = \frac{1}{2 \cdot 10^3 \cdot (90 \cdot 10^3 + 16 \cdot 10^3)}$$

$$= \frac{1}{2} \cdot 10^5 = \frac{1}{5 \cdot 10^4} \cdot \frac{10^3 \cdot (90 \cdot 10^3 + 16 \cdot 10^3)}{10^4}$$

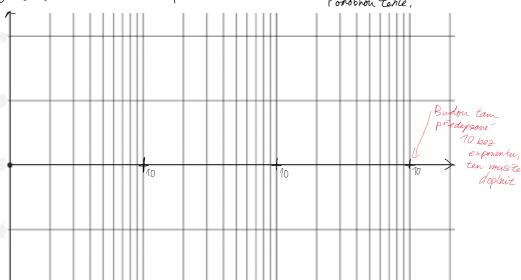
$$\frac{W}{W_{01}} = W K_2 C / W = 0$$

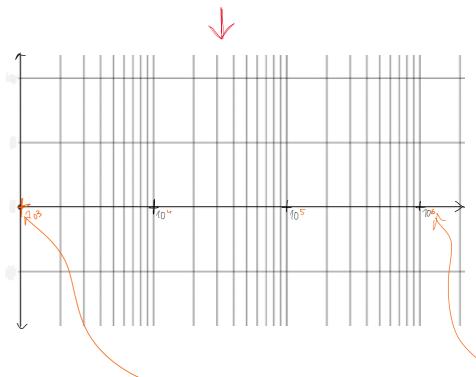
$$\frac{1}{W_{01}} = R_2 C / \frac{1}{2 \cdot 10^3 \cdot 10^{-3}} = \frac{1}{2} \cdot 10^6 = 5 \cdot 10^6 \frac{5 \text{ rad}}{5}$$

$$W_{01} = \frac{1}{R_1 C} = \frac{1}{2 \cdot 10^3 \cdot 10^{-3}} = \frac{1}{2} \cdot 10^6 = 5 \cdot 10^6 \frac{5 \text{ rad}}{5}$$

Cas na graf, v testu chéel pouze Amplitudouj [P(jw)], ale uvedu i Fázový pro úplnosť.

Dostanete neu testu pred pripravenou logaritmichou skalu.





Konknete Se Ma

Wo1 = 5.10 5 rad

Wo2 = 5.10 4 rad

Wo2 = 5.10 4 rad

Wo2 = 5.10 4 rad

E budeme

Po trebovat 10 a 10

Ma vodorovnou osa,

Pro snažsi práci z volime

o dehádn mensi jako nejmensi

=> 103

a o jednu dehádu

Vic 106 nez největsi

[P(jw) [EdB]

POZNACÍME OSQ V

