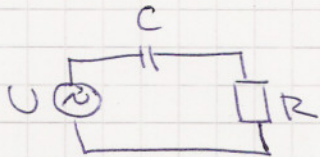


Da.jpg

3.



Určete, pro který kmitočet ω bude pro amplitudy
platit: $|U_R| = |U_C|$
 $R = 2000$, $C = 0,0005$, $u = 100 \sin(\omega t)$

$$|U_R| = |U_C|$$
$$R \cdot I = X_C \cdot I$$
$$R \cdot \cancel{I} = \frac{1}{\omega C} \cdot \cancel{I}$$

$$\omega = \frac{1}{R \cdot C} = \frac{1}{2000 \cdot 0,0005} = \underline{\underline{1 \text{ rad/s}}}$$