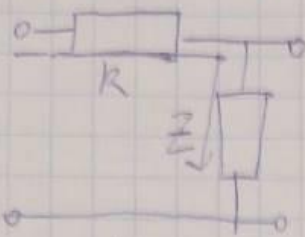
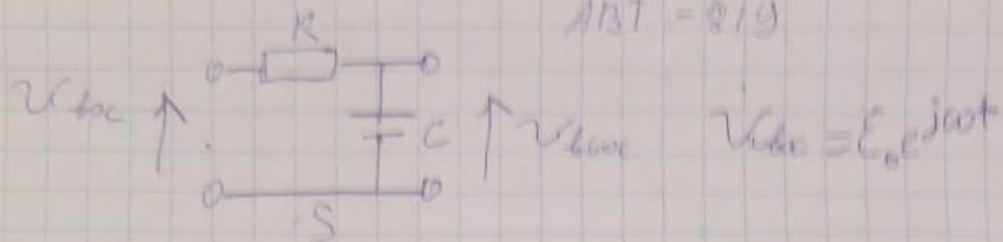


12.02.2021

Баранов К. С.
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$$i_y = \frac{U_{bc}}{R + Z}$$

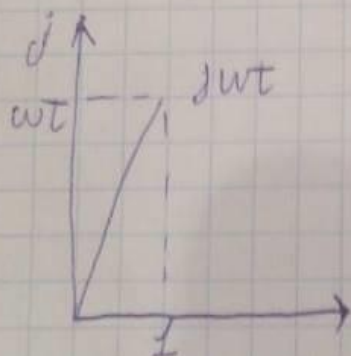
$$U_{out} = i_y \cdot Z = U_{bc} \cdot \frac{Z}{R + Z}$$

$$Z = \frac{1}{j\omega C}$$

$$j = \sqrt{-1}$$

$$Z = \frac{1}{j\omega C}$$

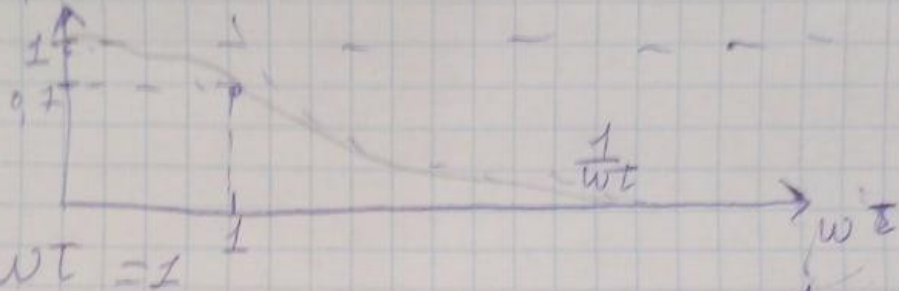
$$K = \frac{U_{out}}{U_{bc}} = \frac{Z}{R + Z} = \frac{\frac{1}{j\omega C}}{R + \frac{1}{j\omega C}} = \frac{1}{1 + j\omega RC} = \frac{1}{1 + j\omega T}$$



нозгоругу перем $|K| = \frac{1}{\sqrt{1 + j\omega C R}} = \frac{1}{\sqrt{1 + \omega^2 T^2}}$ затухающий
 (амплитуда глос $= A \cdot \omega$ на частоте ω
 ска-на)

$|K|$

$A \approx \infty$



$$\omega = \frac{1}{\tau} = \frac{1}{1.2} = 0.7$$

\textcircled{B} $\frac{1}{\tau}$