Дано:

Решение:

$$\psi(\omega) = -45^{\circ}$$

$$\psi(\omega) = -arctg(\frac{\omega}{\alpha})$$

$$\alpha=10^6\,c^{\text{-}1}$$

$$-arctg(\frac{\omega}{\alpha}) = -45^{\circ}$$

$$\frac{\omega}{\alpha}$$
 = 1 => ω = α = 10⁶ c⁻¹

$$f = \frac{\omega}{2\pi} \approx 0,16 \ \Gamma$$
ц = 160 к Γ ц