

POEL C10: Przesunięcie fazowe, wykresy wskazowe (odpowiedzi)

Zadanie 1. (a) $E_m = 5 \text{ V}$, $U_m = 3\sqrt{5} \text{ V}$ (b) $J_m = I_m = \sqrt{2} \text{ A}$.

Zadanie 2. (a) $C = 2 \mu\text{F}$, $\arg U - \arg E = -\frac{\pi}{4}$, (b) $C = 4 \text{ nF}$, $u(t) = \frac{\sqrt{2}}{2} \sin \omega t \text{ [V]}$.

Zadanie 3. $L = 2 \text{ H}$, $C = \frac{1}{2} \mu\text{F}$, $u(t) = 4 \sin \omega t \text{ [V]}$.

Zadanie 4. $L = 1 \text{ H}$, $C = 1 \mu\text{F}$.

Zadanie 5. $C = 1 \mu\text{F}$.

Zadanie 6. $e(t) = \sqrt{17} \cos(2 \cdot 10^6 t) \text{ [V]}$.

Zadanie 7. $R = 1 \text{ k}\Omega$.