

Preparation

Student Group

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Preparation

Do math right

- calculate fractions correct:
$$\begin{aligned} \frac{A}{B} \cdot \frac{1}{C} &\quad \& \neq \quad \frac{A}{B \cdot C} \\ \frac{A}{B \cdot C} &\quad \& \neq \quad \frac{A}{B} \cdot \frac{1}{C} \end{aligned}$$

Do physics right

- Check the units. e.g. dB cannot be converted in V
- Prove you (mis)conceptions on impedances
 - Check whether Z or $\underline{Z}$ is needed in formulas: $Z = |\underline{Z}| \neq \underline{Z}$
 - impedances are not (only) resistors, at least do not think of R is given as $\underline{Z}$.
For purely ohmic components the other way around is correct: $\underline{Z} = R$.
 - However, impedances 'act' like ohmic resistors in formulas.
E.g. for the series circuit: $R_{\text{eq}} = R_1 + R_2 + R_3 + \dots \rightarrow \underline{Z}_{\text{eq}} = \underline{Z}_1 + \underline{Z}_2 + \underline{Z}_3 + \dots$

Do exam right

- Do not miss out questions. Sometimes there is more than one answer required

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Last update: **2023/02/02 10:19**

