

## Electrical Circuit Theory Questions And Answers

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### Important Short Questions and Answers: Basic Circuits Analysis

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For alternating electric current form factor is defined as the ratio of rms value and average value of alternating current. Now the rms value of alternating electric current =  $0.07 \times$  maximum value of alternating current. Average value of alternating electric current =  $0.637 \times$  maximum value of alternating current. So form factor =  $0.707 / 0.637 = 1.11$ .

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An RLC circuit carries an electrical circuit consisting of a resistor (R) and inductor (L) and a capacitor (C), connected in parallel or series. This circuit is called a second order circuit as any voltage or current in the circuit can be described by a second order differential equation.

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In electrical circuit theory, a circuit C(t) is called a linear circuit if it satisfies the superposition principle given by  $C(at_1 + bt_2) = aC(t_1) + bC(t_2)$ , where a,b are constants. Show that the Concept: Identifying the Graphs of Linear, Quadratic, Cubic and Reciprocal Functions.

In electrical circuit theory, a circuit C(t) is called a ...

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When doing circuit analysis, you need to know some essential laws, electrical quantities, relationships, and theorems. Ohm's law is a key device equation that relates current, voltage, and resistance. Using Kirchhoff's laws, you can simplify a network of resistors using a single equivalent resistor. You can also do the same type of calculation to obtain [...]

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Electrical resistance, measured in Ohms, is the measure of the amount of current repulsion in a circuit. Simply, resistance resists current flow. When electrons flow against the opposition offered by resistance in the circuit, friction occurs and heat is produced.

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A.C. Fundamentals, Circuits and Circuit Theory Questions :-1. A sine wave has a frequency of 50 Hz. Its angular frequency is \_\_\_\_\_ radian/second. (a) 100 n (b) 50 jt (c) 25 JT (d) 5 n Ans: a. 2. The reactance offered by a capacitor to alternating current of frequency 50 Hz is 20 Q. If frequency is increased to 100 Hz, reactance becomes\_\_\_\_\_ohms. (a) 2.5 (b) 5

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