

1/SQRT(2)? (11:44)

List alternate methods of expressing $1/\sqrt{2}$ and $\sqrt{2}$.

Express how peak and effective or RMS value relate to one another.

Draw a diagram illustrating a sine wave with the following properties identified: peak, peak to peak, and RMS. Commit this diagram to memory.

Describe the shape of current and power as a function of time when sinusoidal voltage is applied to a resistive load.

Describe how to calculate peak power.

Identify the methods used to calculate average power.

Using the equations $P_{\text{PEAK}}/2 = P_{\text{AVE}}$ and $V_{\text{PEAK}}^2/R/2 = V_{\text{RMS}}^2/R$, solve for effective voltage.

Using the equations $P_{\text{PEAK}}/2 = P_{\text{AVE}}$ and $I_{\text{PEAK}}^2 \cdot R/2 = I_{\text{RMS}}^2 \cdot R$, solve for effective voltage.

Identify the default value read by most DMMs: peak, peak to peak, or RMS