

An AC voltage is applied across a resistor. When the frequency of the AC voltage waveform is doubled the power dissipated in the resistor

1. Increases by factor of 4
2. Increases by factor of 2
3. Remains the same
4. Decreases by factor of 2
5. Decreases by factor of 4

An AC voltage is applied across a resistor. When the Amplitude of the AC voltage waveform is doubled the power dissipated in the resistor

1. Increases by factor of 4
2. Increases by factor of 2
3. Remains the same
4. Decreases by factor of 2
5. Decreases by factor of 4

An AC voltage is applied across a resistor. When the phase of the AC voltage waveform is increased by  $90^\circ$  the power dissipated in the resistor

1. Increases by factor of 4
2. Increases by factor of 2
3. Remains the same
4. Becomes negative
5. Decreases by factor of 2
6. Decreases by factor of 4