

If a particular impedance is real

1. It contains no terms multiplied by  $i$
2. It contains terms multiplied by  $i$
3. The voltage and current are in phase
4. The voltage and current are out of phase
5. Some of the above.

If a particular impedance is complex

1. It contains no terms multiplied by  $i$
2. It contains terms multiplied by  $i$
3. The voltage and current are in phase
4. The voltage and current are out of phase
5. Some of the above.

The magnitude of the impedance of a capacitor

1. Increases with frequency
2. Is independent of frequency
3. Decreases with frequency

The magnitude of the impedance of an inductor

1. Increases with frequency
2. Is independent of frequency
3. Decreases with frequency