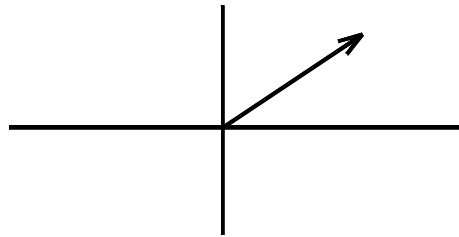


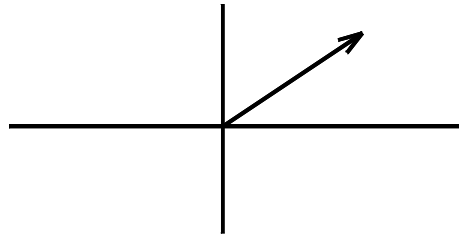
This impedance diagram represents

1. A resistor in series with a capacitor
2. A resistor in series with an inductor
3. An inductor in series with a capacitor



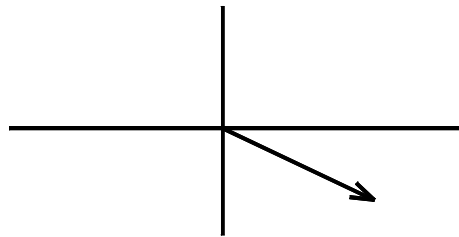
In this impedance diagram

1. The voltage leads the current
2. The voltage is in phase with the current
3. The voltage lags the current



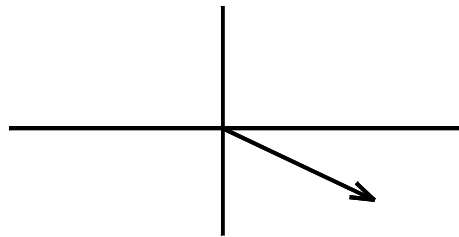
This impedance diagram shows that the voltage and the current are related by

1. $V = |Z| e^{j\phi} I$
and ϕ is positive
2. $V = |Z| e^{j\phi} I$
and ϕ is negative



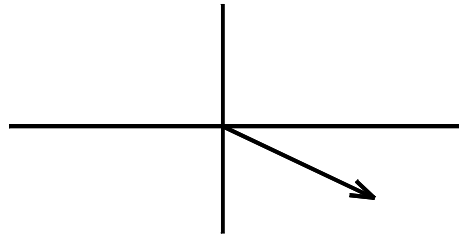
This impedance diagram represents

1. A resistor in series with a capacitor
2. A resistor in series with an inductor
3. An inductor in series with a capacitor



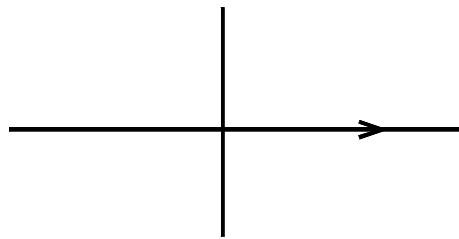
In this impedance diagram

1. The voltage leads the current
2. The voltage is in phase with the current
3. The voltage lags the current



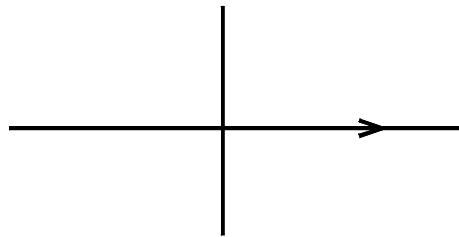
This impedance diagram shows that the voltage and the current are related by

1. $V = |Z| e^{j\phi} I$
and ϕ is positive
2. $V = |Z| e^{j\phi} I$
and ϕ is negative



This complex impedance diagram could represent

1. A resistor
2. A resistor in series with a capacitor
3. A resistor in series with an inductor
4. A resistor, a capacitor and an inductor in series



The phase angle, ϕ , for this complex impedance diagram is

1. Positive
2. Zero
3. Negative