

15

The rms value (in volt) for the CH2 signal is approximately:
(2 Points)

Enter your answer

16

CH2 lead CH1 .
(1 Point)

- True
- False
- Can't be determined

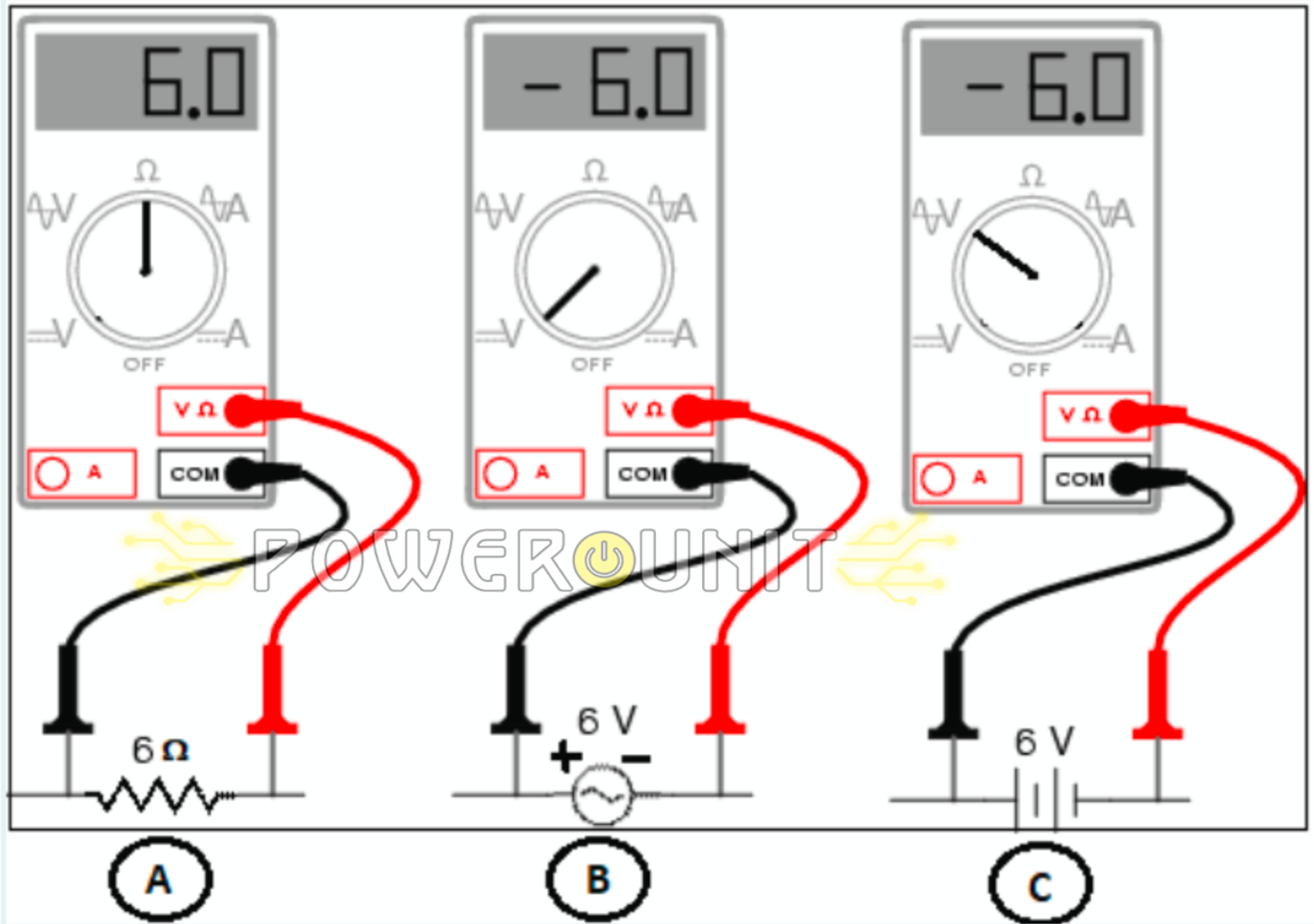


17

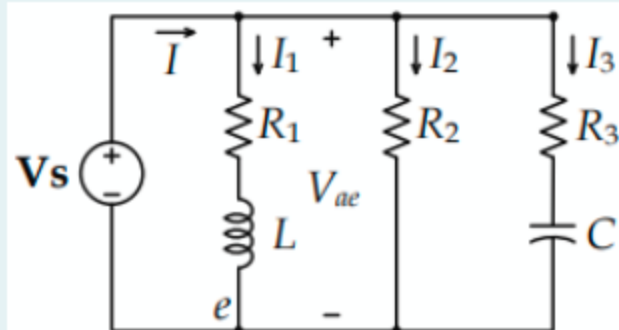
The phase angle (in degree) between the two signals is:
(1.5 Points)

Enter your answer

One of the following figures has either correct connection or reading. Which is that? (2 Points)



7



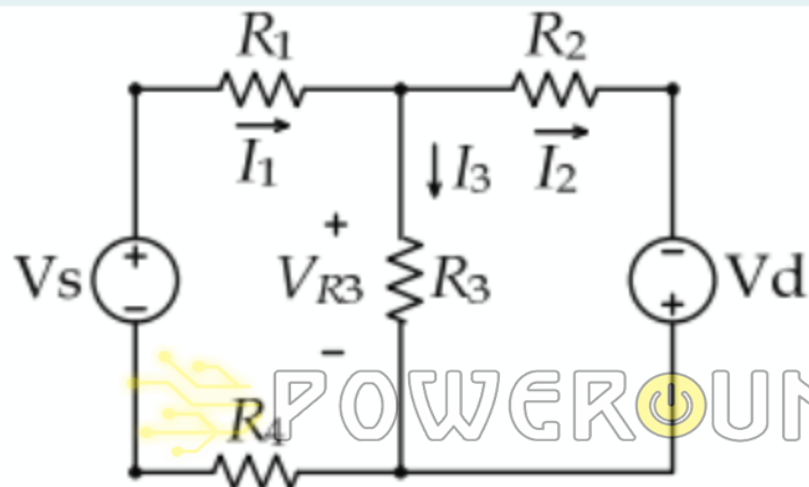
Adding another Inductor (L) in series with R2 (in the circuit shown next) will: (4)

(2 Points)

- decrease the value of the current (I1)
- increase the value of the current (I3)
- increase the value of the current (I2)
- make no changes to the total current (I)
- make the current (I2) equal to zero



The circuit shown below is experimentally conducted by applying the superposition method for the circuit currents, where the results are presented in the table as shown (in ampere). Accordingly, please answer the following:



	Due to Vs only	Due to Vd only
I1	8.19	4.49
I2	2.62	-4.01
I3	5.57	8.5

9

The total absorbed power by $R_1 = 390$ ohm (in kWatt) is:
(2 Points)

10

The voltage drop on $R_3 = 40$ ohm (in volt) due to both supplies is:
(2 Points)

Enter your answer

11

If $R_1 = 7$ ohm, $R_4 = 8$ ohm and $R_3 = 30$ ohm, then the value of the resistor R_2 (in ohm) for maximum power transfer is:
(1 Point)



Enter your answer

Back

Next

Page 6 of 9

12

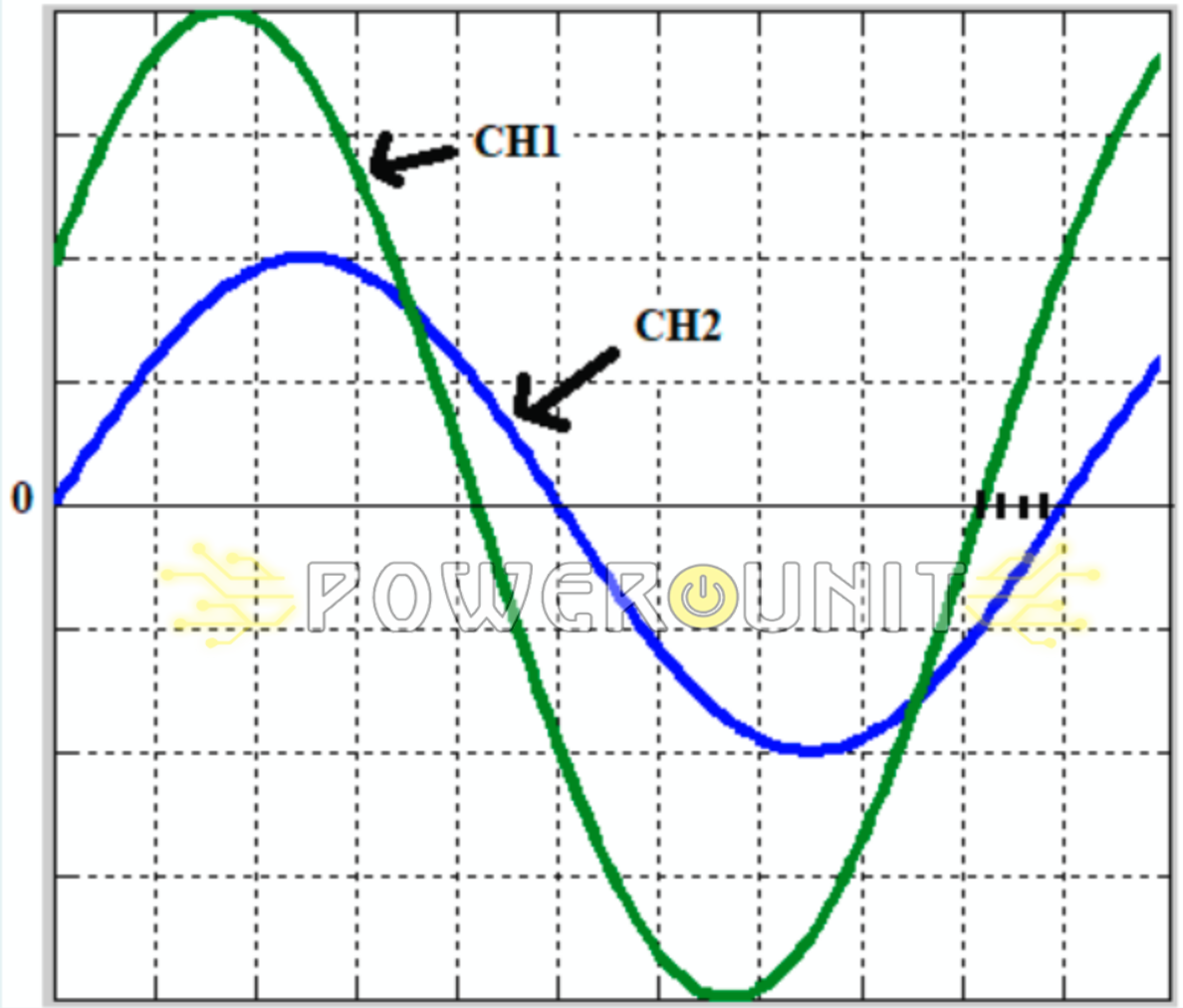


To find the Norton resistor of a circuit, we had to short all the current sources and open all the voltage sources.

(1 Point)

- True
- False

Referring to the signals shown on the scope screen above, If both signals have a frequency of 6 kHz while the CH2 scale = 1.84 volt/Div. Answer the following questions:



13

The time/Dive scale (in msec/div) will be:
(2 Points)

0.016666667 msec

14

In the oscilloscope device, the knob that determines number of the displayed signal cycles on the screen is :
(1.5 Points)

- Volt per Div
- Horizontal position
- Vertical position
- Time per Div



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