Problem 1

Color	Code
Black	0
Brown	1
Red	2
Orange	3
Yellow	4
Green	5
Blue	6
Violet	7
Grey	8
White	9
Gold	5%
Silver	10%
None	20%

Answer Question (1) Using the resistance color codes provided in the table shown

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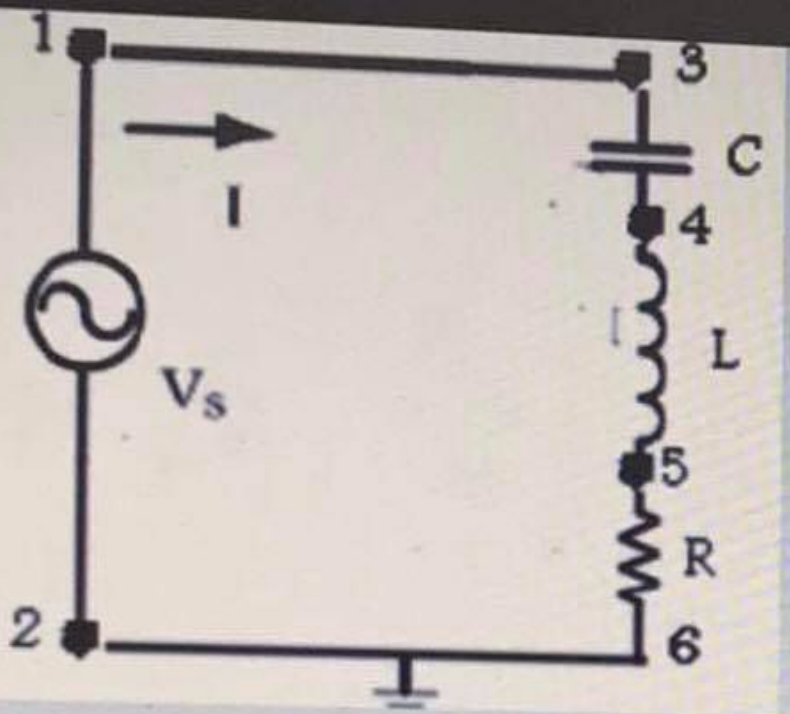
Question (1): The minimum resistance value (in ohm) for a resistor with (Yellow, black, Yellow, Gold) color is:
(2 Points)

Enter your answer



Problem 3

For the RLC circuit shown, answer Questions (5) - (7)

8

Question (5): To measure the peak to peak value of Vs, the suitable device to be connected between 1 and 2 is: (2 نقطة)

oscilloscope

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Question (5): To measure the peak to peak value of Vs, the suitable device to be connected between 1 and 2 is:
(2 Points)

oscilloscope using peak to peak value through measure

9

Question (6): To measure the RMS value of Vs, the suitable device to be connected between 1 and 2 is:
(2 Points)

oscilloscope using DC voltage value through measure

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Question (7): How can you measure the phase shift between Vs and I?
(2 Points)

we measure the phase shift between vs and vr because vr in phase with the current

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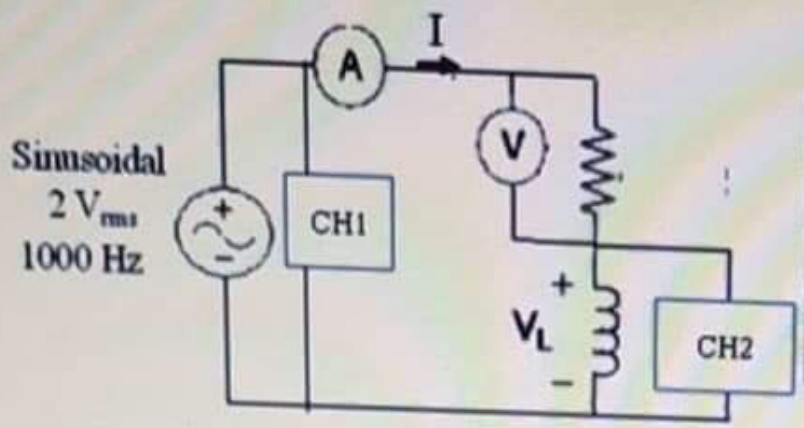
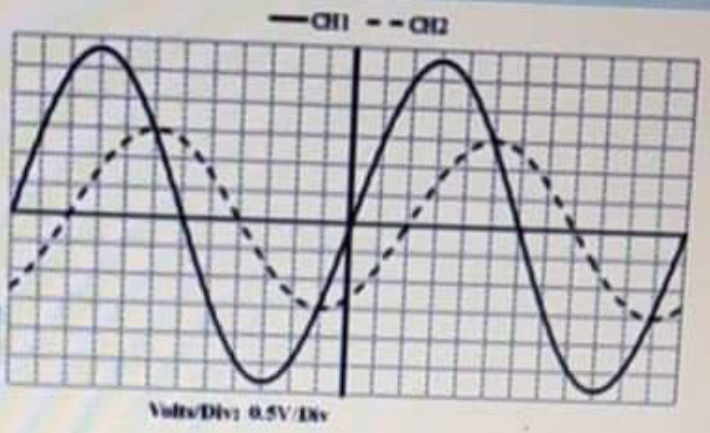
Required

Problem 4

For the circuit shown, if the ammeter reading is 3.54 mArms, then answer Questions (8) -(10).





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Question (8): The time division of the oscilloscope is:
(2 Points)

Enter your answer

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Question (9): The approximate value of the inductor (in Henry) is:
(2 Points)

1.35 mH

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