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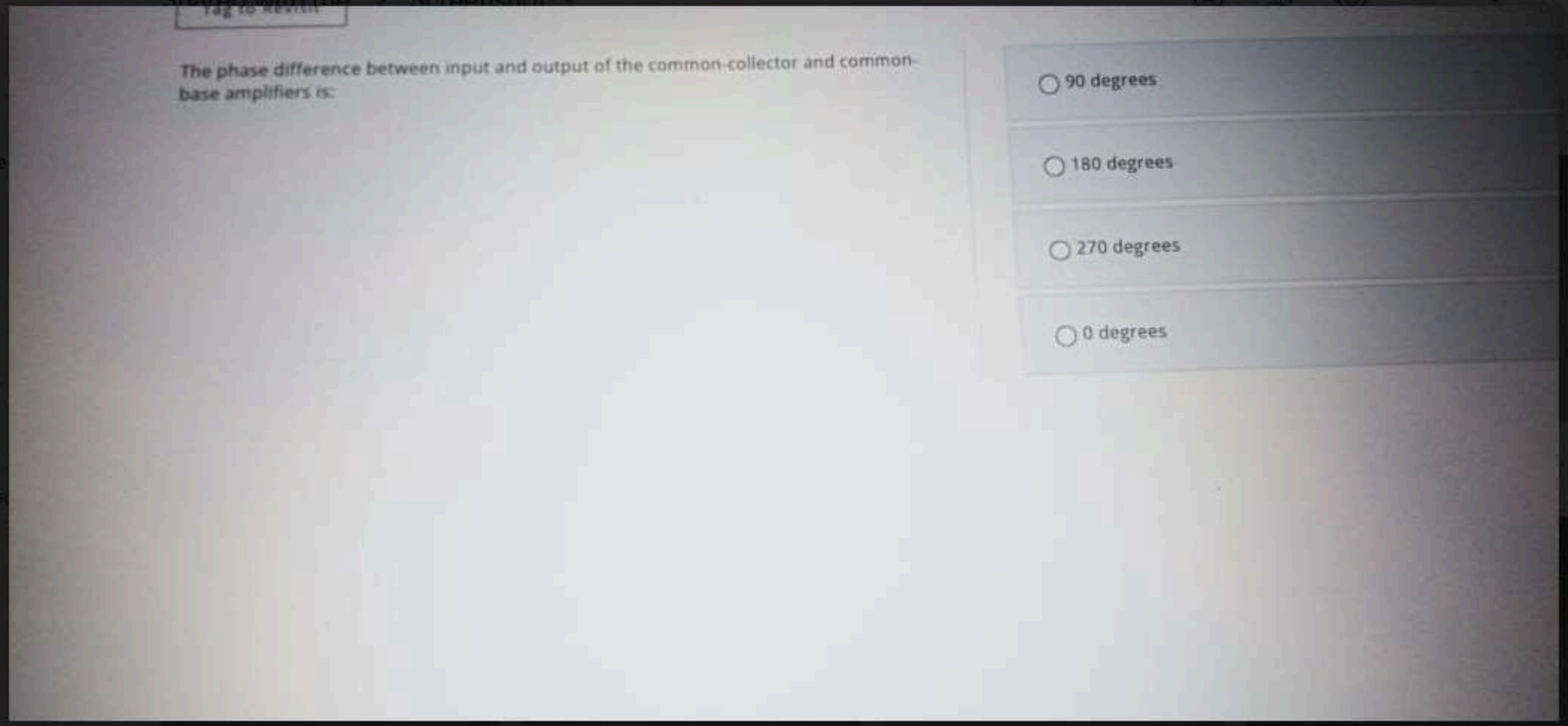

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Reset

A certain transistor exhibits an αDC of 0.96. Determine IC when IE = 9.35 mA.

- 8.81mA
- 9.1mA
- 8.976mA
- 9.876mA

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Sum expression of half adder with inputs A and B is .....

- A'B + AB'
- AB
- A+B
- AB + A'B'

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A parallel LC network with L = 100 mH and C = 25 μF will resonate at what frequency?

- 25 Hz
- 100 Hz
- 45.5 Hz
- 75.6 Hz

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Next

Compared to a visible red LED, an infrared LED

- Produces light with longer wavelengths
- Produces light with shorter wavelengths
- Produces light of all wavelengths
- Produces only one color of light

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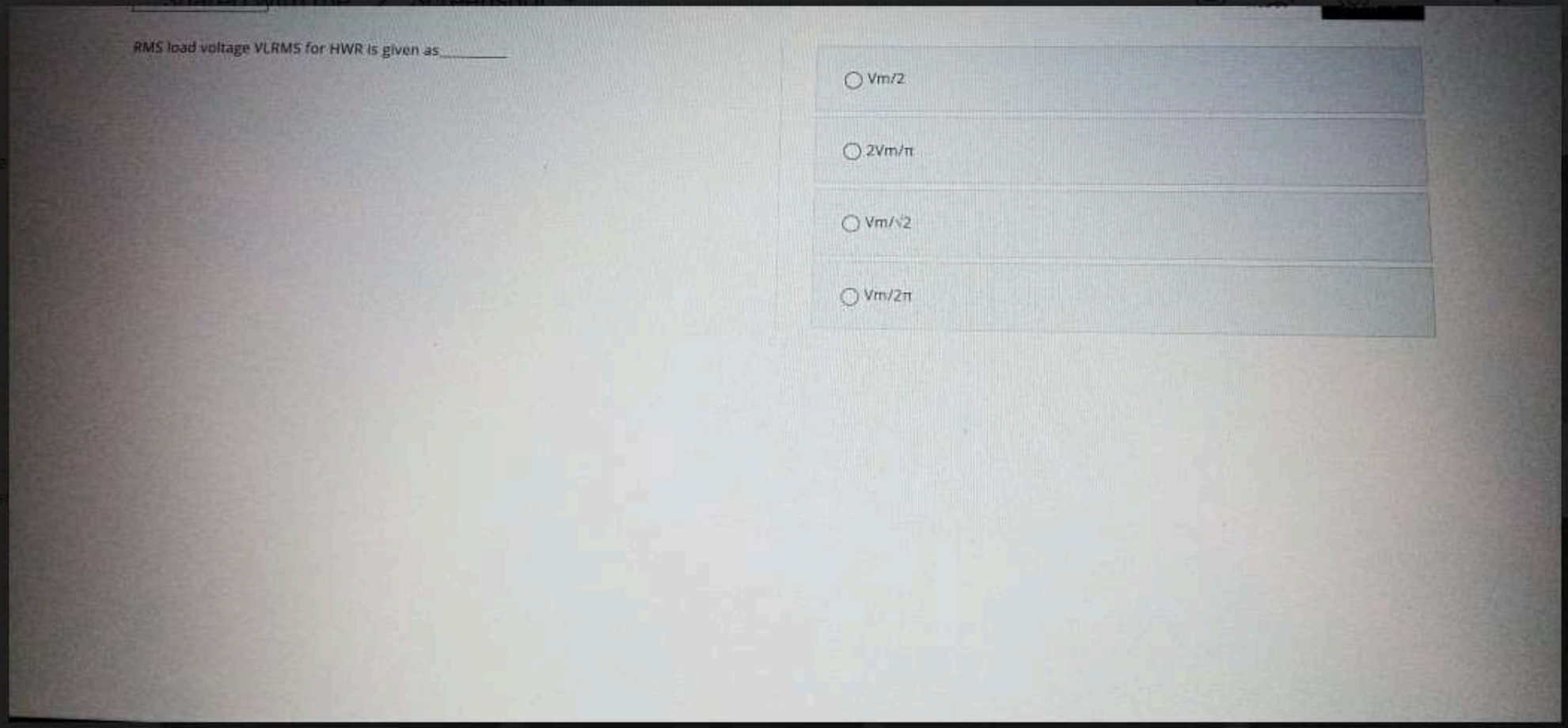
RMS load voltage VLRMS for HWR is given as_____
Vm/2
2Vm/π
Vm/√2
Vm/2π

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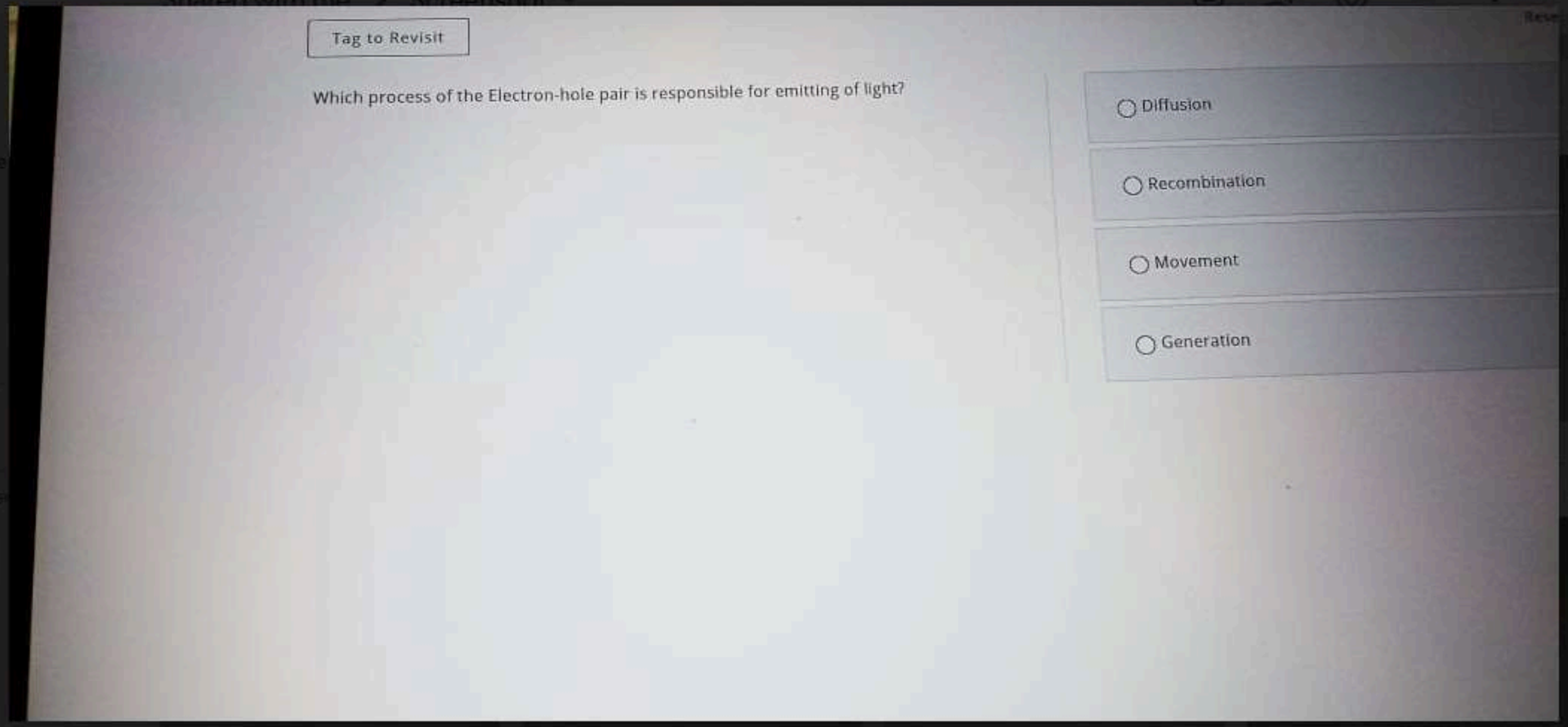

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Reset

A half wave rectifier with RL = 1k? is given an input of 10 V peak from a step-down transformer. DC load voltage using ideal diode is

- 3.18V
- 2.13V
- 9.18 V
- 5.18 V

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- 9.18 V
- 2.13V
- 3.18V
- 5.18 V

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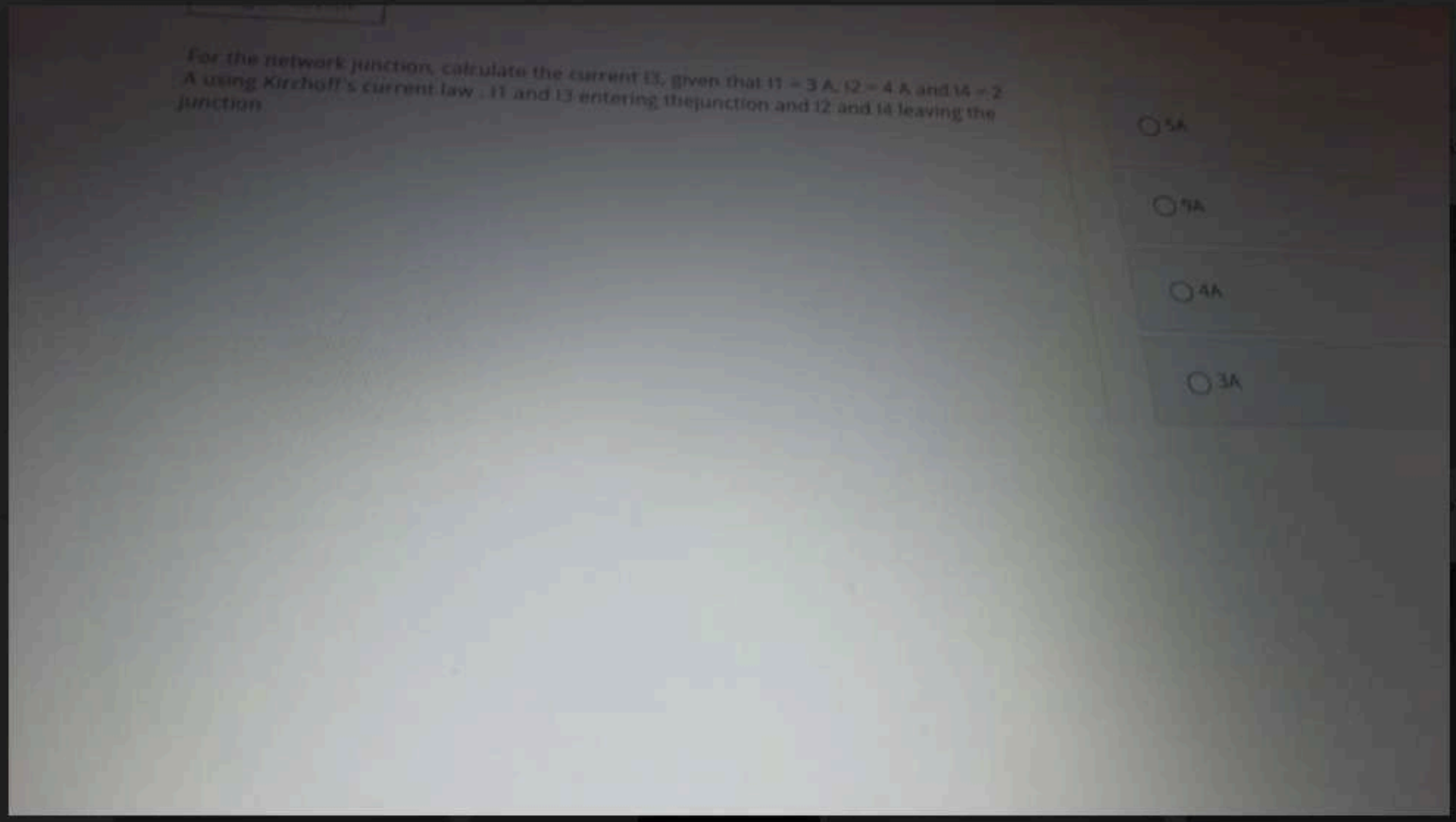

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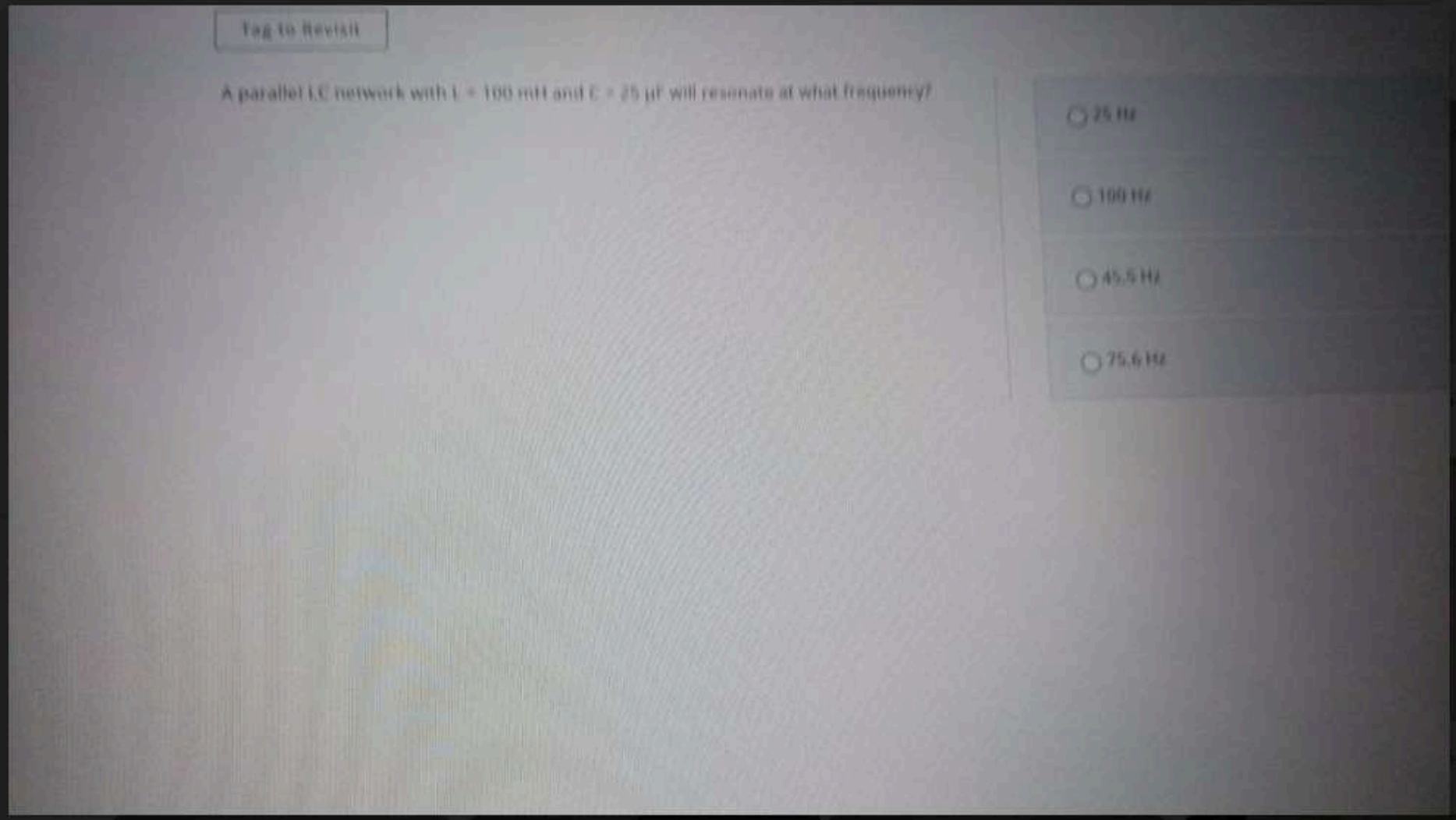

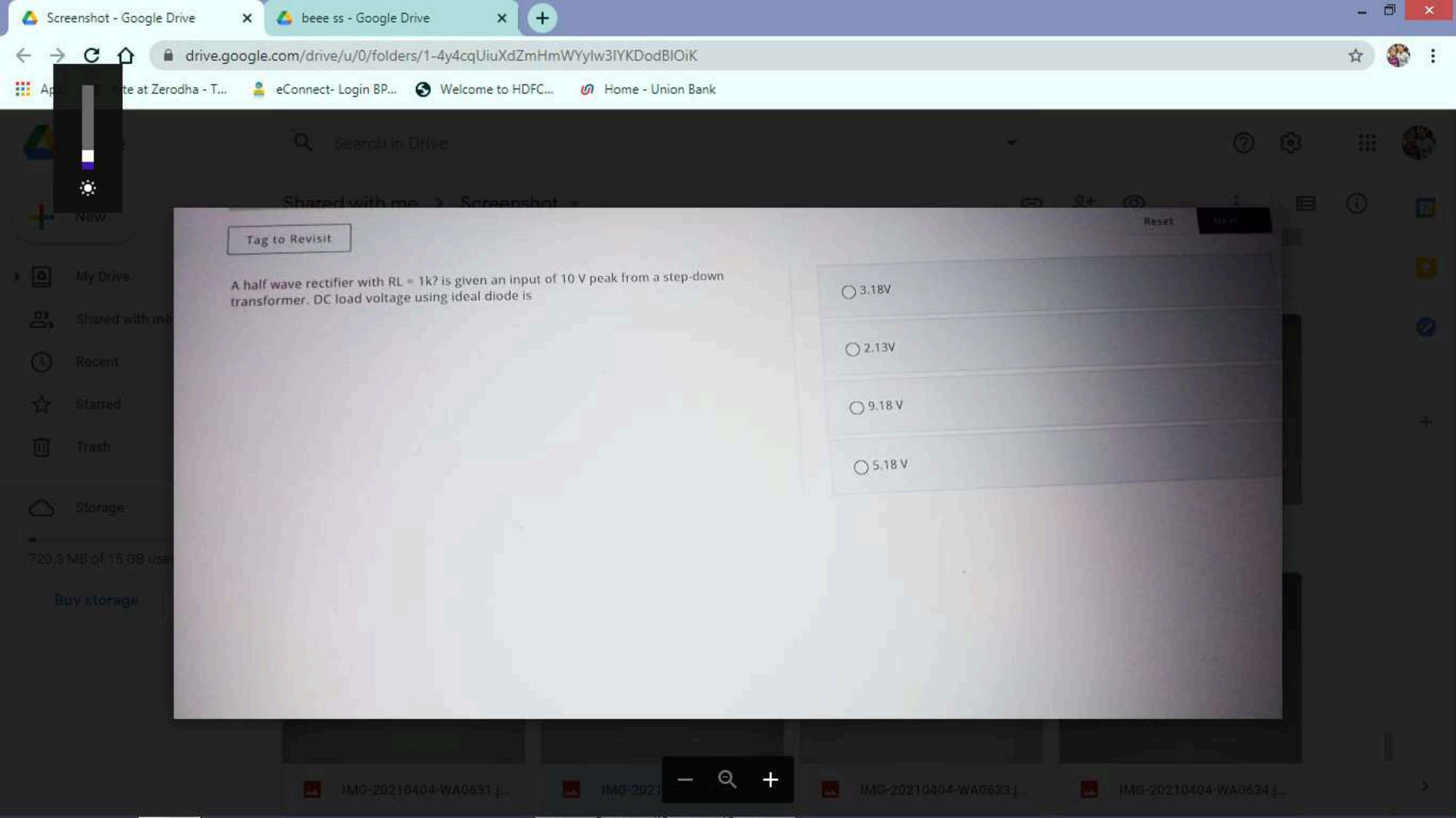
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A half wave rectifier with RL = 1k? is given an input of 10 V peak from a step-down transformer. DC load voltage using ideal diode is
3.18V
2.13V
9.18 V
5.18 V
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

47 of 50 answer

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Next

A certain inverting amplifier has input signal voltage is 10 mVrms, R1 of 100 kΩ and Rf of 100 kΩ, find the output voltage.

- -10mVrms, out of phase
- -10Vrms, out of phase
- -10mVrms, in phase
- -1Vrms, out of phase

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The transistor in CE configuration has a VBB = 5V, RB = 15 KΩ and a βDC = 100, then IC equal to:

- 28 mA
- 0.028 mA
- 2.8 mA
- 50 mA

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For a Zener diode, its reverse current increases from 30 mA to 45 mA when the Zener voltage changes from 6.7 V to 6.77 V, then its zener resistance is

- 4.477 Ω
- 10 Ω
- 4.667 Ω
- 5Ω

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Gain-bandwidth product of a practical OP-AMP is...

- 1 MHz
- zero
- infinite
- 10 MHz

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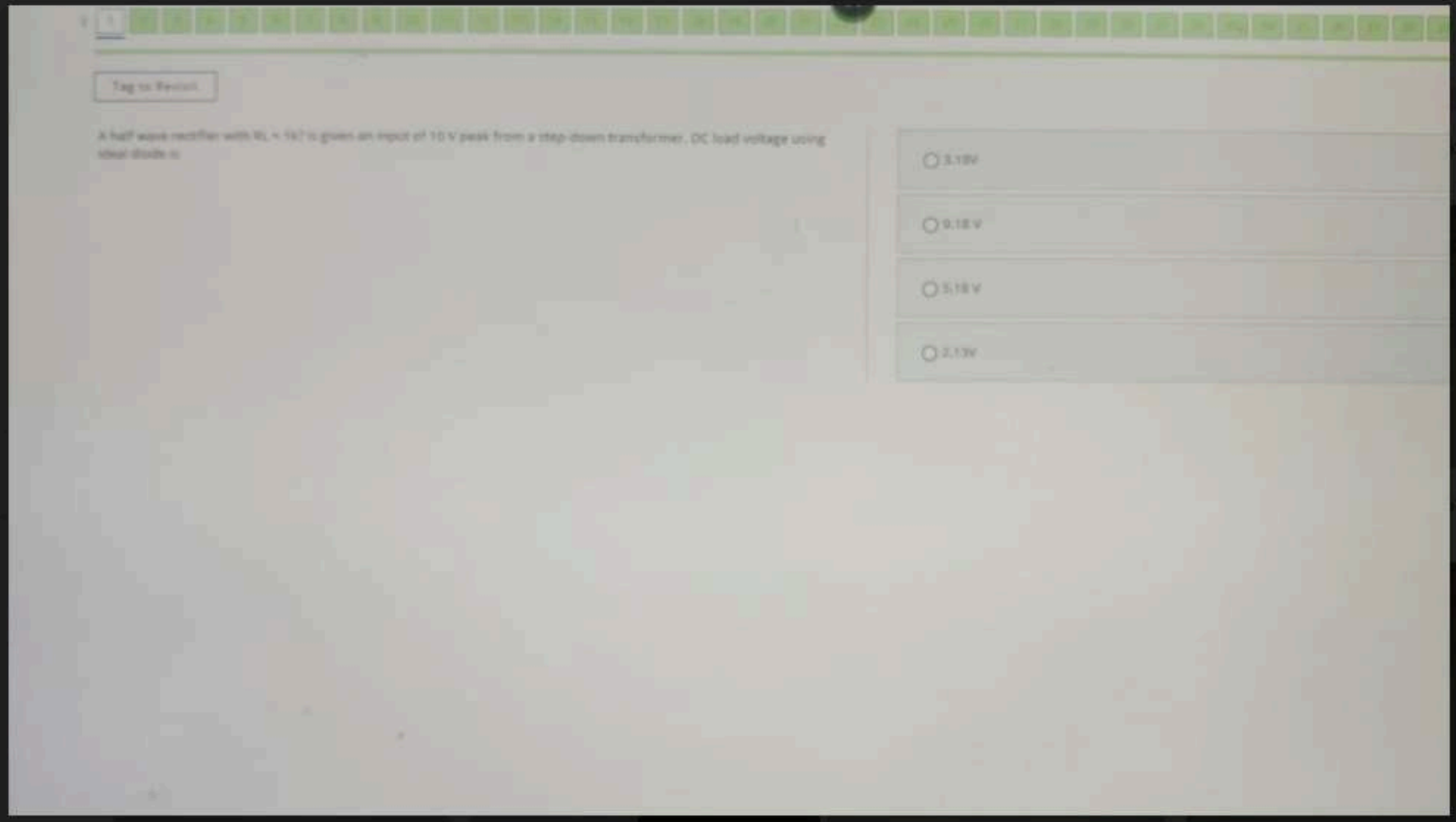

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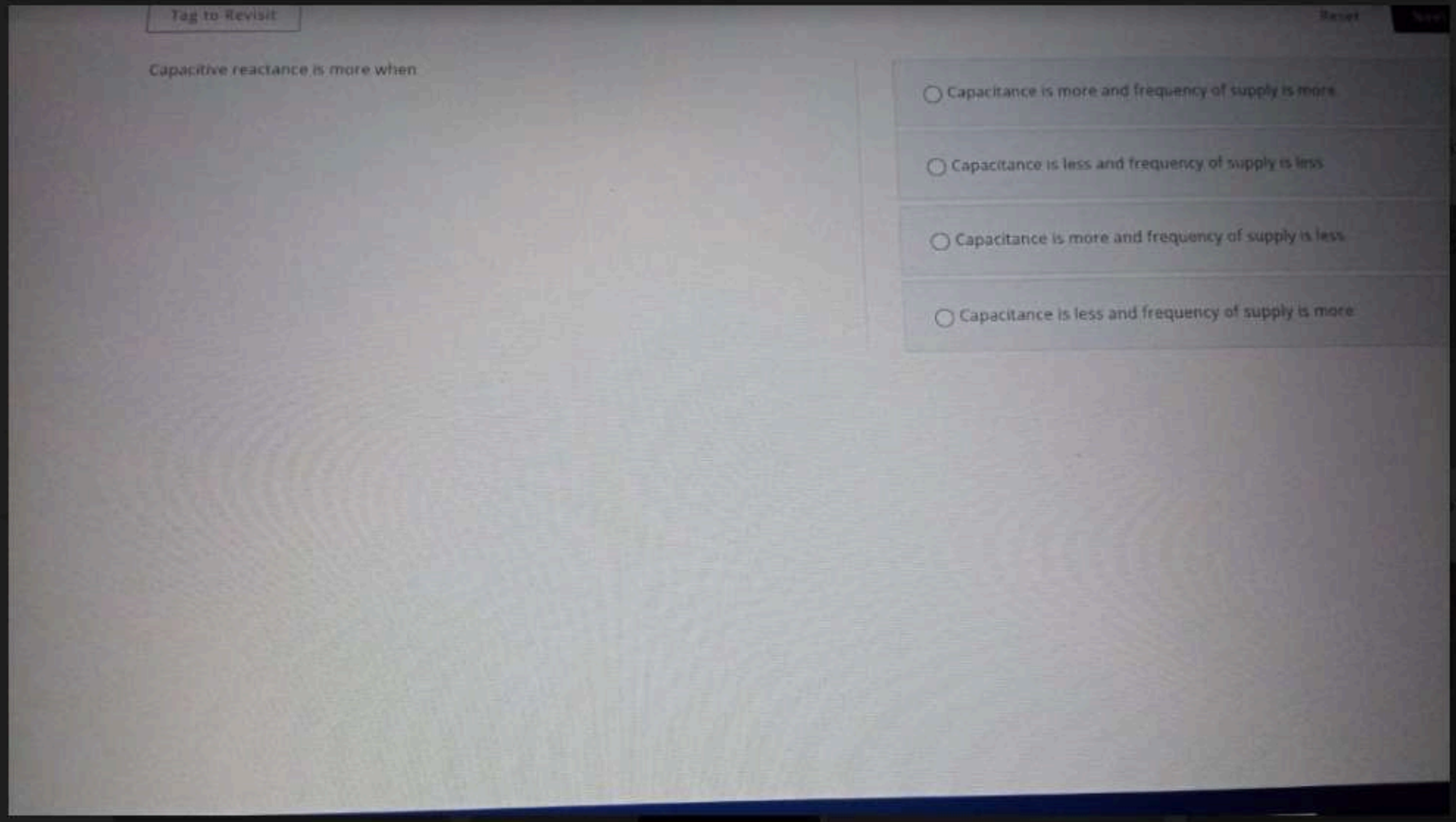

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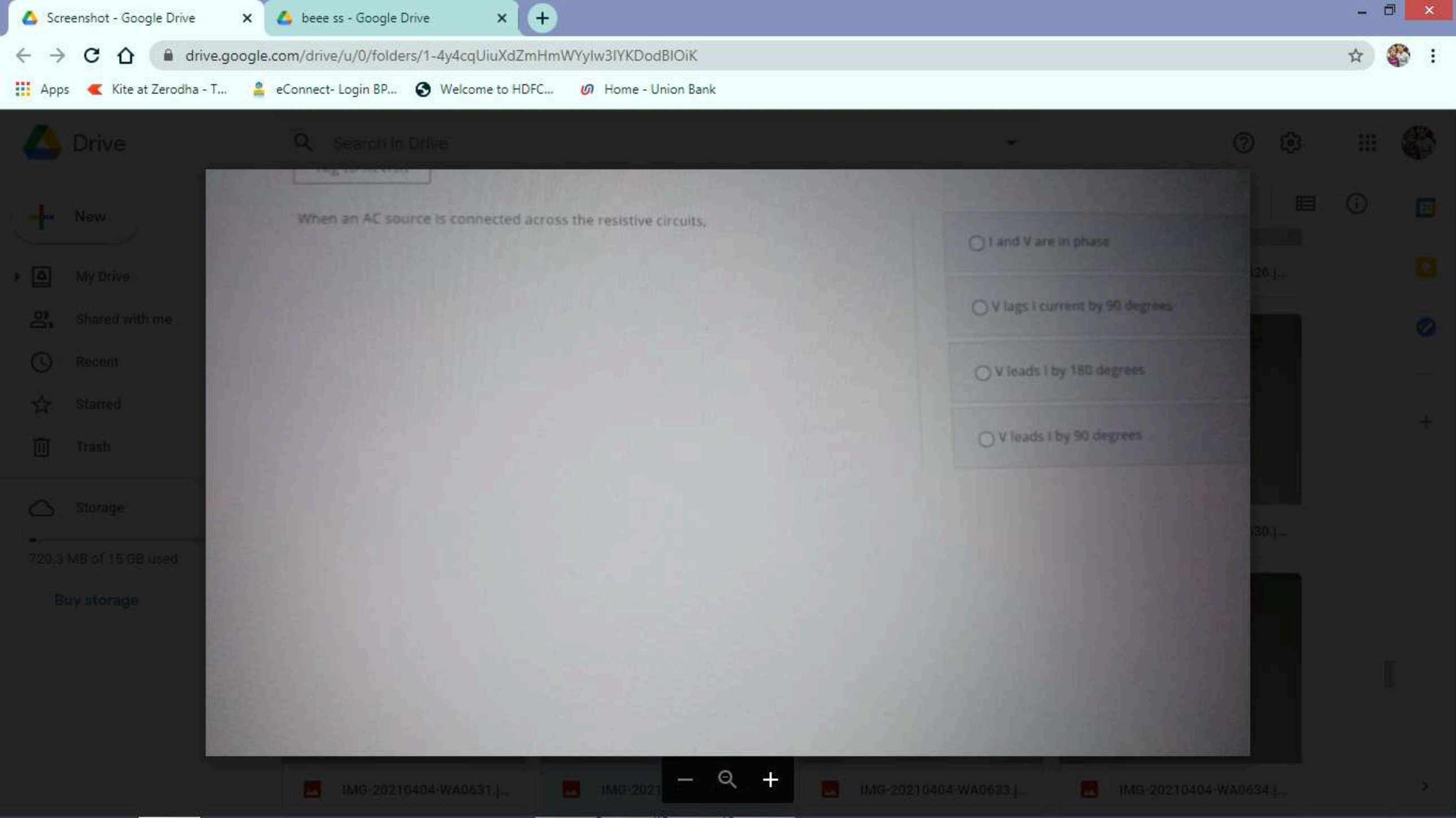
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When an AC source is connected across the resistive circuits,
I and V are in phase
V lags I current by 90 degrees
V leads I by 180 degrees
V leads I by 90 degrees
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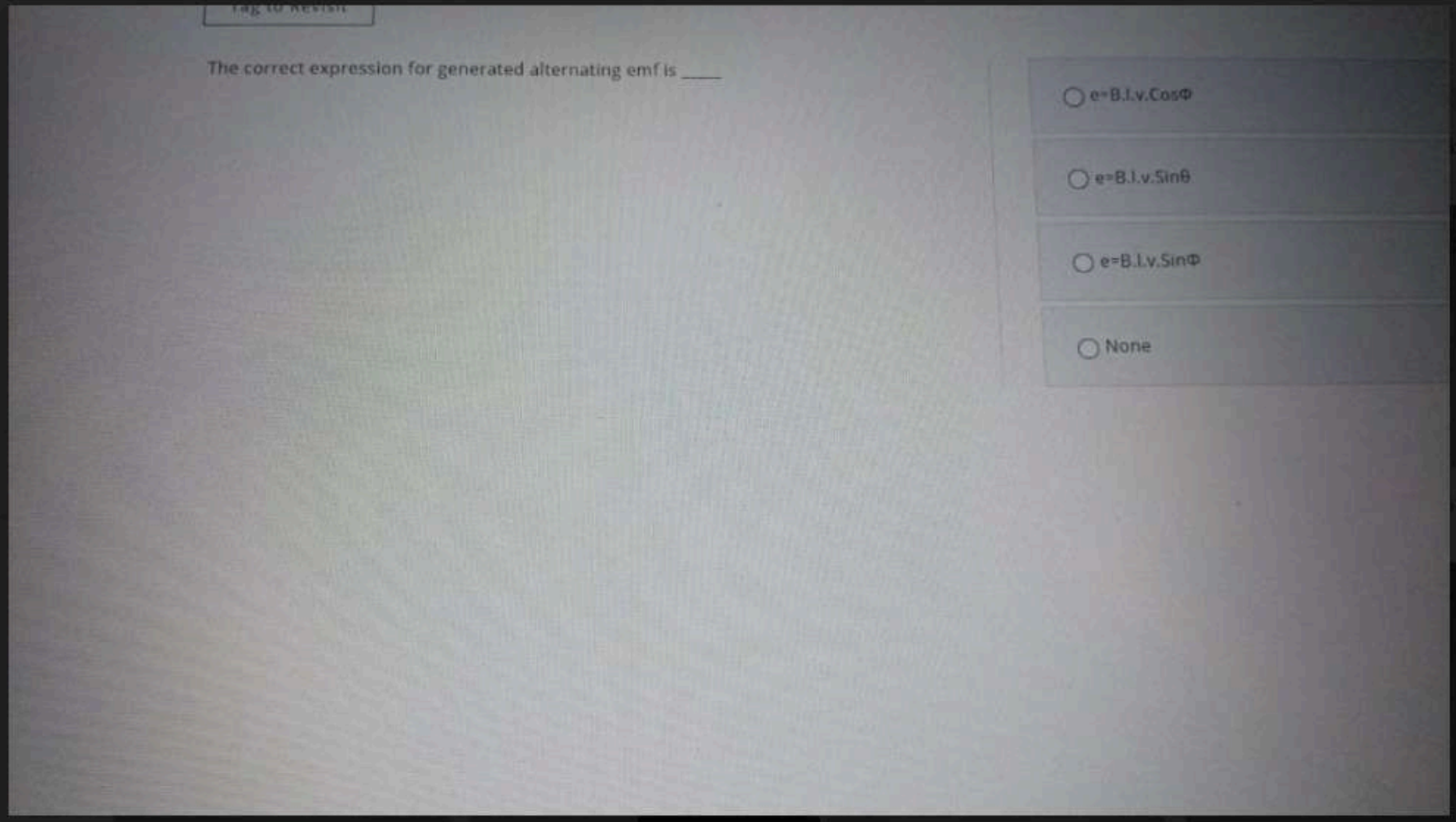

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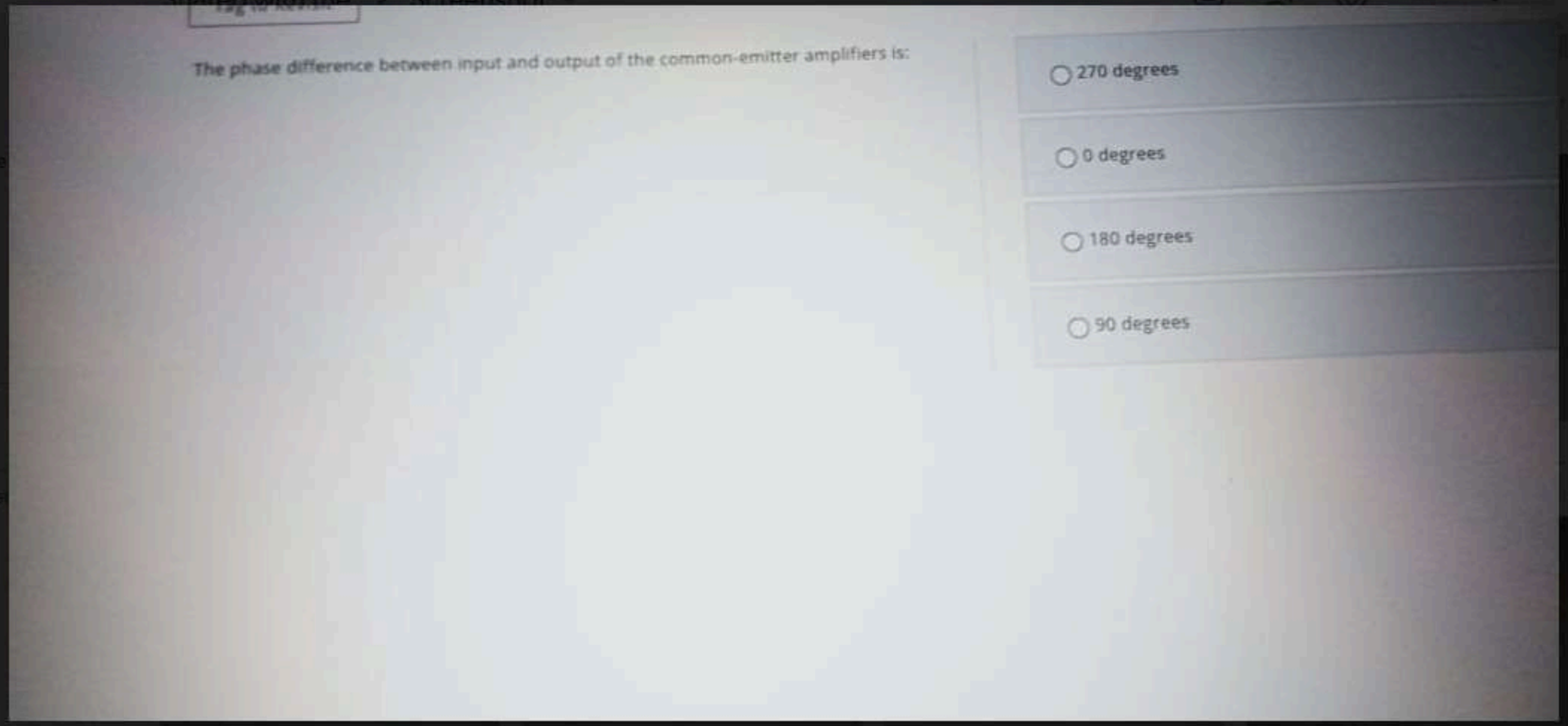

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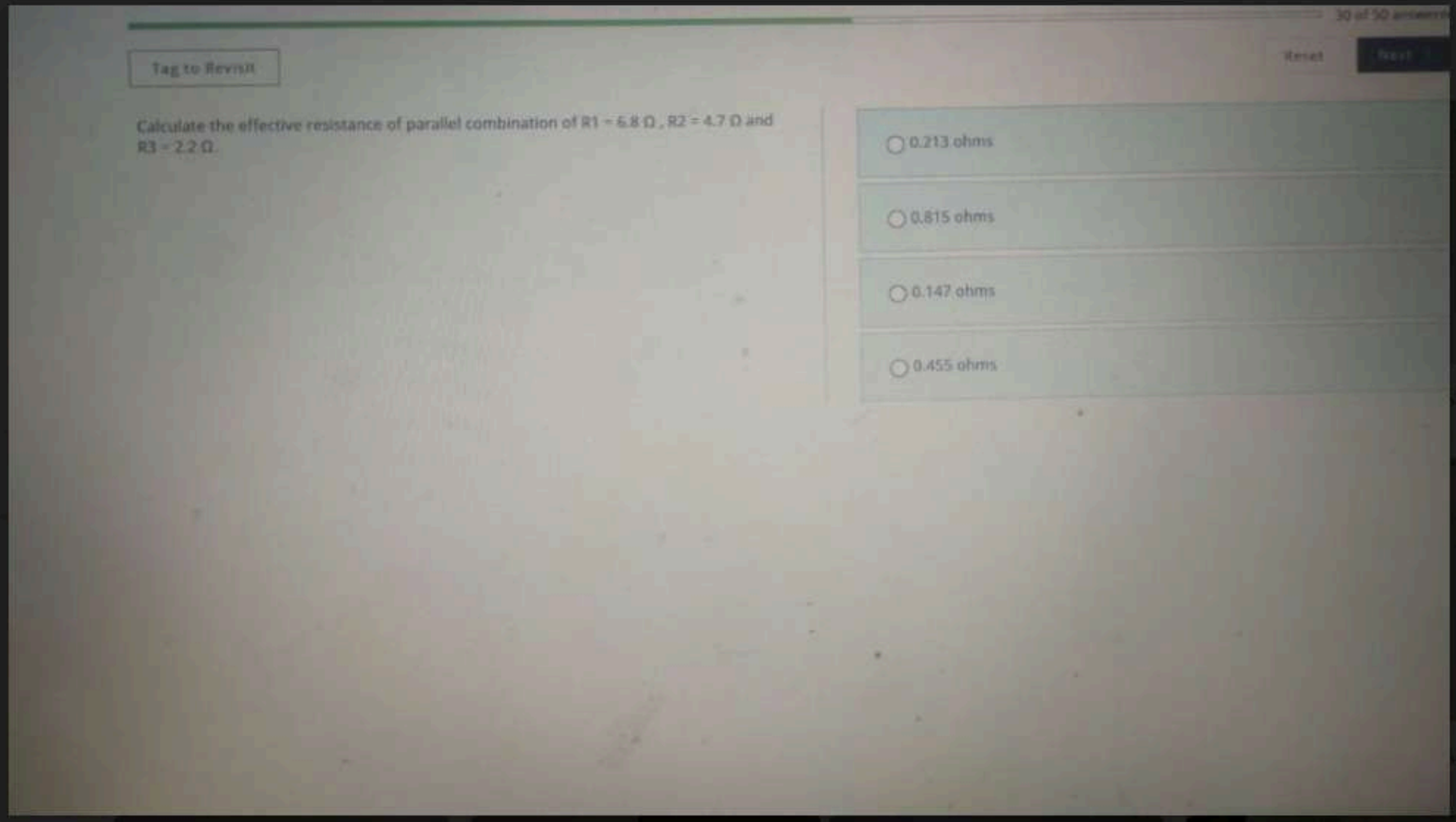

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Find the total voltage applied in a series RLC circuit when I = 3 mA, VL = 30 V, VC = 18 V and R = 1000 Ω.

- 3.95V
- 6.67V
- 32.67V
- 51 V

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Reset

A silicon transistor connected in common emitter configuration with voltage divider bias is shown in figure. If Vcc = 10V, Rc = 1 KΩ, R1 = 100 KΩ, R2 = 10 KΩ ,RE = 100 Ω. The Q point is at:

- 1.8 mA, 6.7V
- 1.2 mA, 7.8V
- 2.5 mA, 5.5 V
- 2 mA, 7.8 V

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If R1 = 2 Ω, R2 = 4 Ω, R3 = 8 Ω are connected in series and 2 A current is flowing through the series combination. Voltage drop VR2 =

- 8 V
- 16 V
- 4 V
- 28 V

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The ends of a load line drawn on a family of curves determine:

- the operating point
- the power curve
- the amplification factor
- saturation and cutoff

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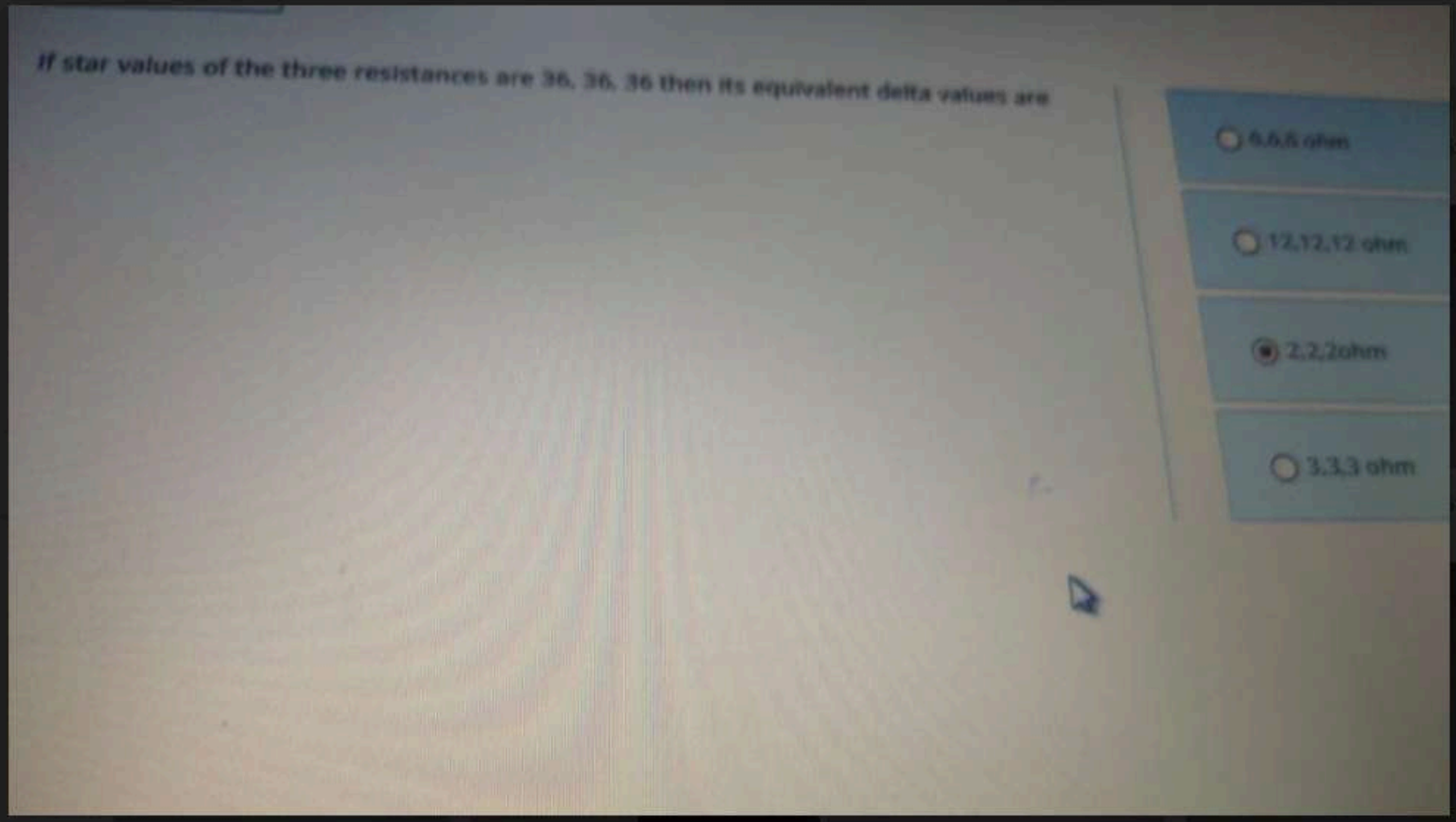

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A certain transistor exhibits an αDC of 0.96. Determine IC when IE = 9.35 mA.

- 8.81mA
- 9.1mA
- 8.976mA
- 9.876mA

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An ideal transformer will have maximum efficiency at a load such that _____

- copper loss < iron loss
- cannot be determined
- copper loss = iron loss
- copper loss > iron loss

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- 10 Ω
- 4.667 Ω
- 4.477 Ω
- 5Ω

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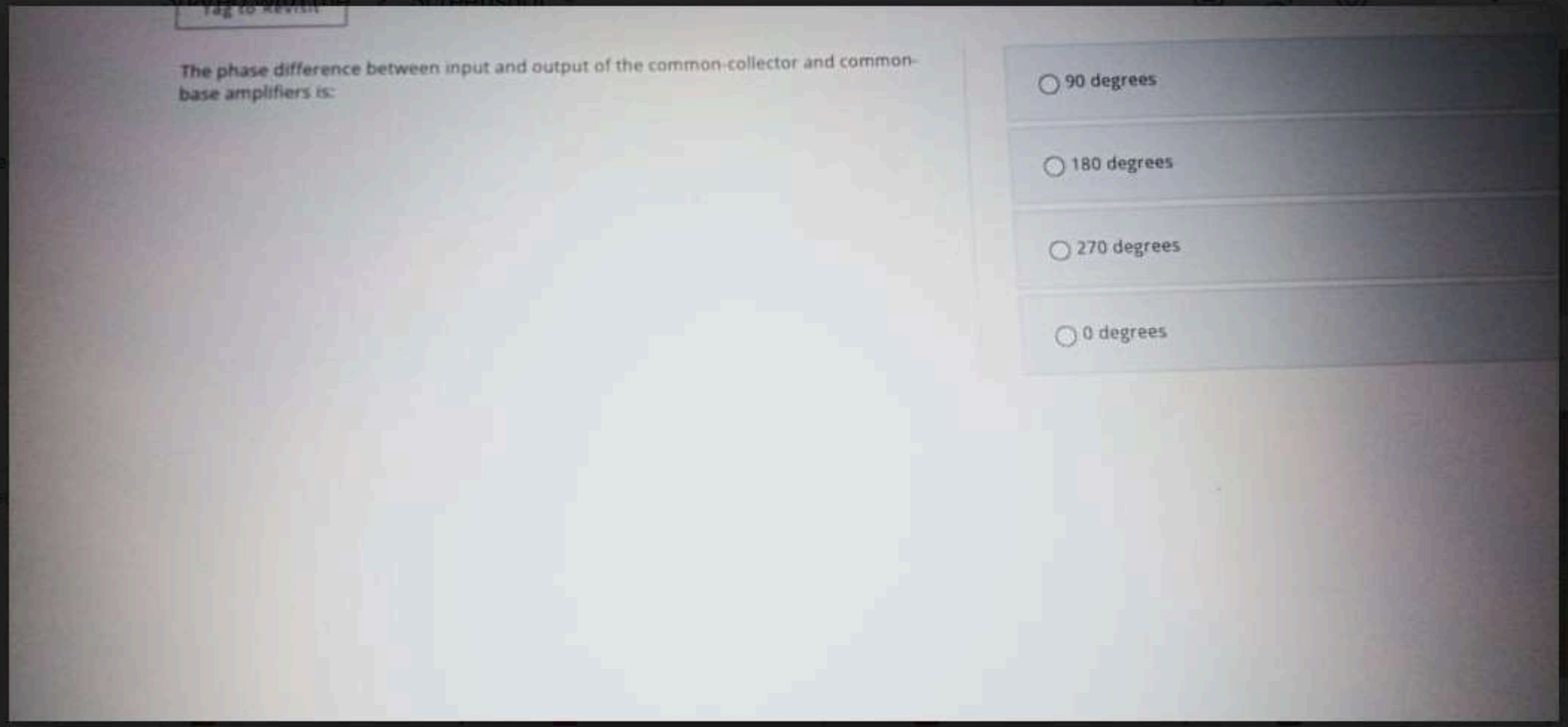

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Tap to Reveal

A half wave rectifier with RL = 1KΩ is given an input of 20 V peak from a step-down transformer. The value of DC load current using silicon diode is

5.96mA

1.56mA

6.367mA

5mA

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Tag to Revisit

The corresponding Maxterm when X = 0, Y= 0 and Z = 1.

- X+Y+Z'
- X+Y'+Z
- X'+Y+Z
- X'+Y'+Z

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The peak value of a sine wave is 200 V. Its average value is

- 282.8 V
- 127.4 V
- 200V
- 141.4 V

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A 12 mA current source has an internal resistance, RS, of 1.2 kΩ. The equivalent voltage source is

- 7.2 V
- 72 mV
- 144 V
- 14.4 V

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Super position theorem can be applied only to circuits having elements

- Non linear
- Resistive
- Passive
- Linear bilateral

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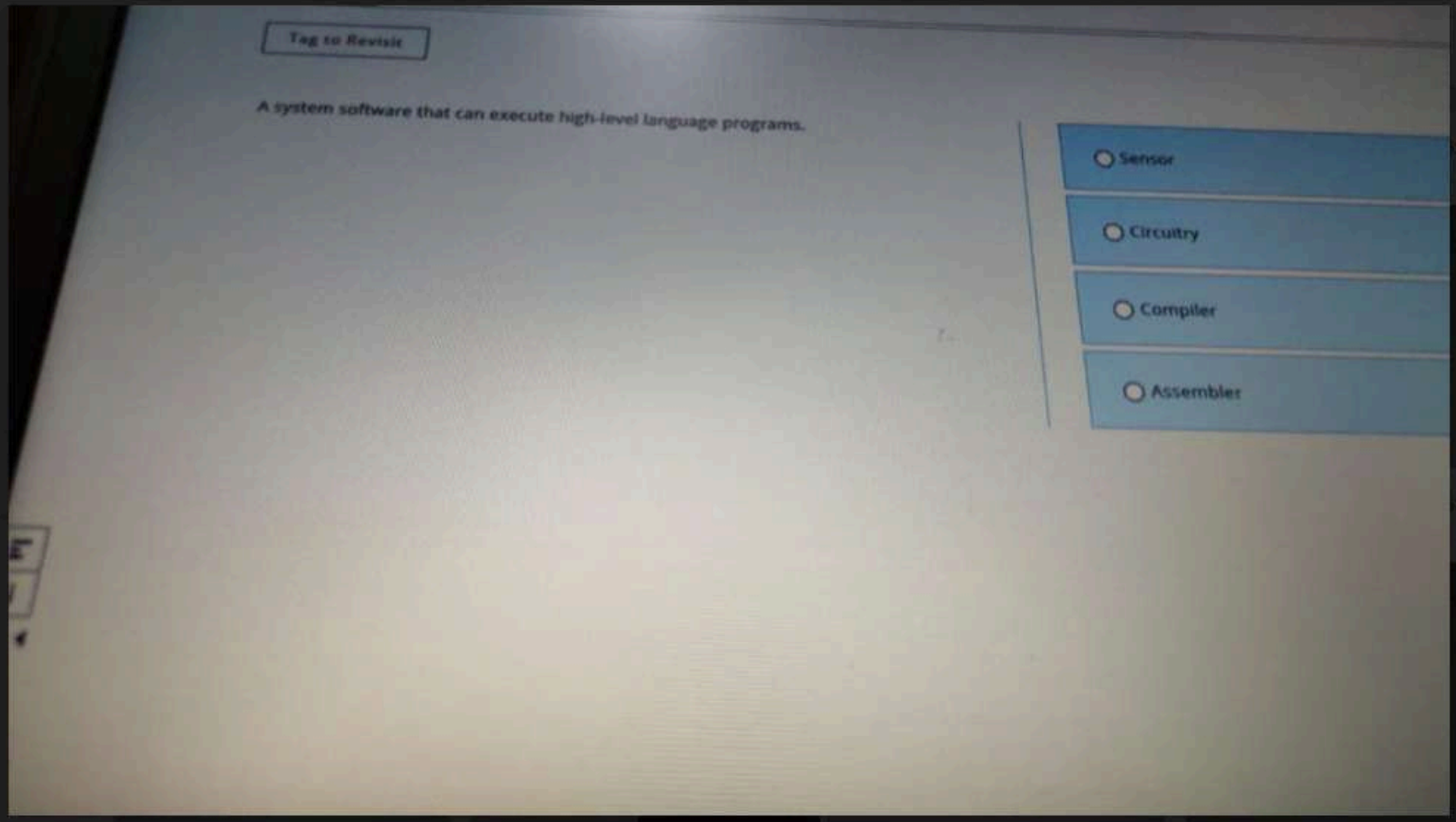

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If the star connected circuit is transformed into delta connected circuit, which of the following statement is true?

- Ra = R3/R1 R2 + R2R3+ R1R3
- Ra = R1R2+ R2R3+ R1R3 /R3
- Ra = R3/R1+ R2
- Ra = R1 + R2 + R3 /R1 + R2

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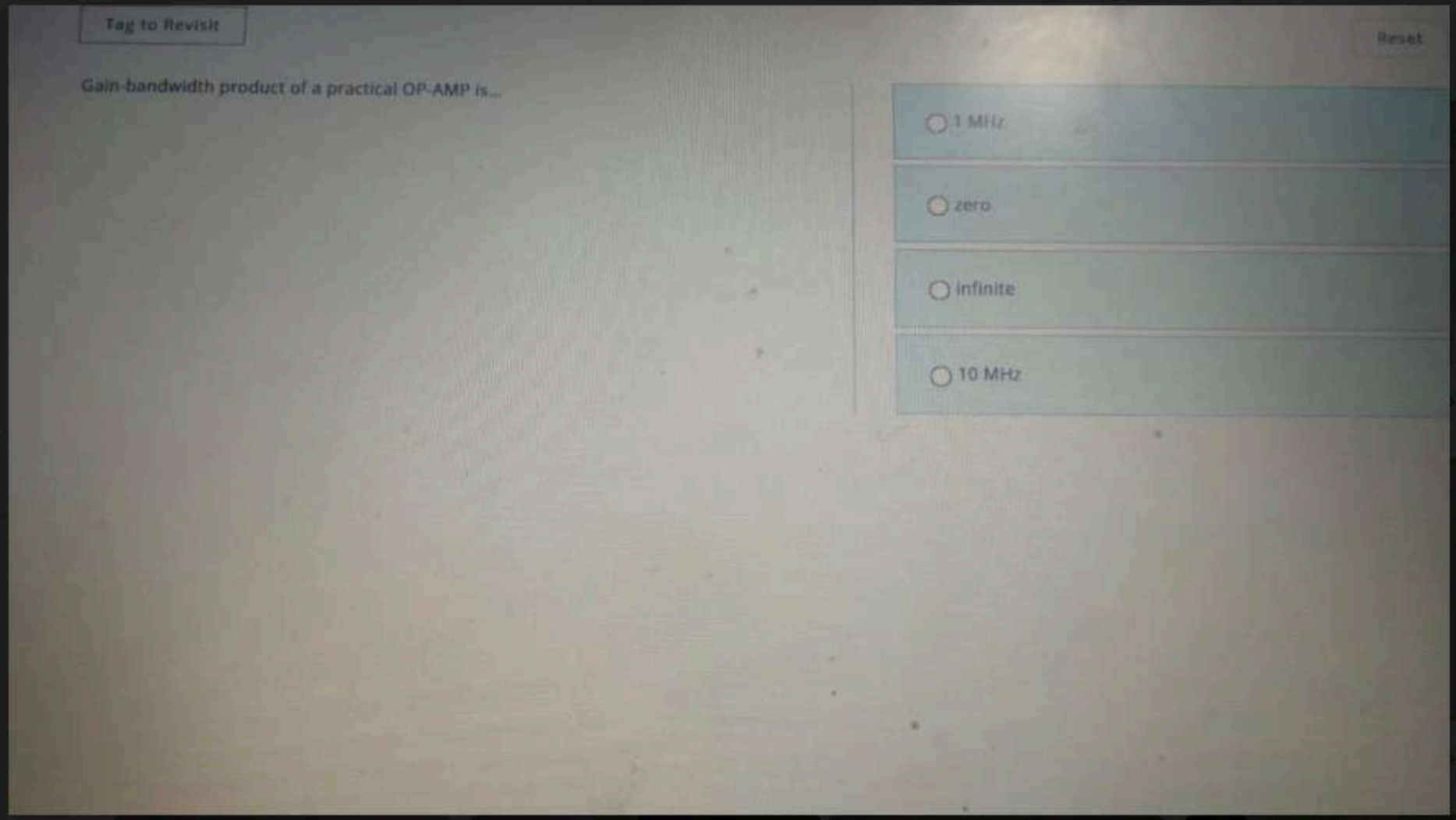

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The transistor in CE configuration has a VBB = 5V, RB = 15 KΩ and a βDC = 100, then IC equal to:

- 28 mA
- 0.028 mA
- 2.8 mA
- 50 mA

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3 of 50 answered

Reset

Often a common-collector will be the last stage before the load; the main function(s) of this stage is to:

- buffer the voltage amplifiers from the low resistance load and provide impedance matching for maximum power transfer
- provide phase inversion
- provide voltage gain
- provide a high-frequency path to improve the frequency response

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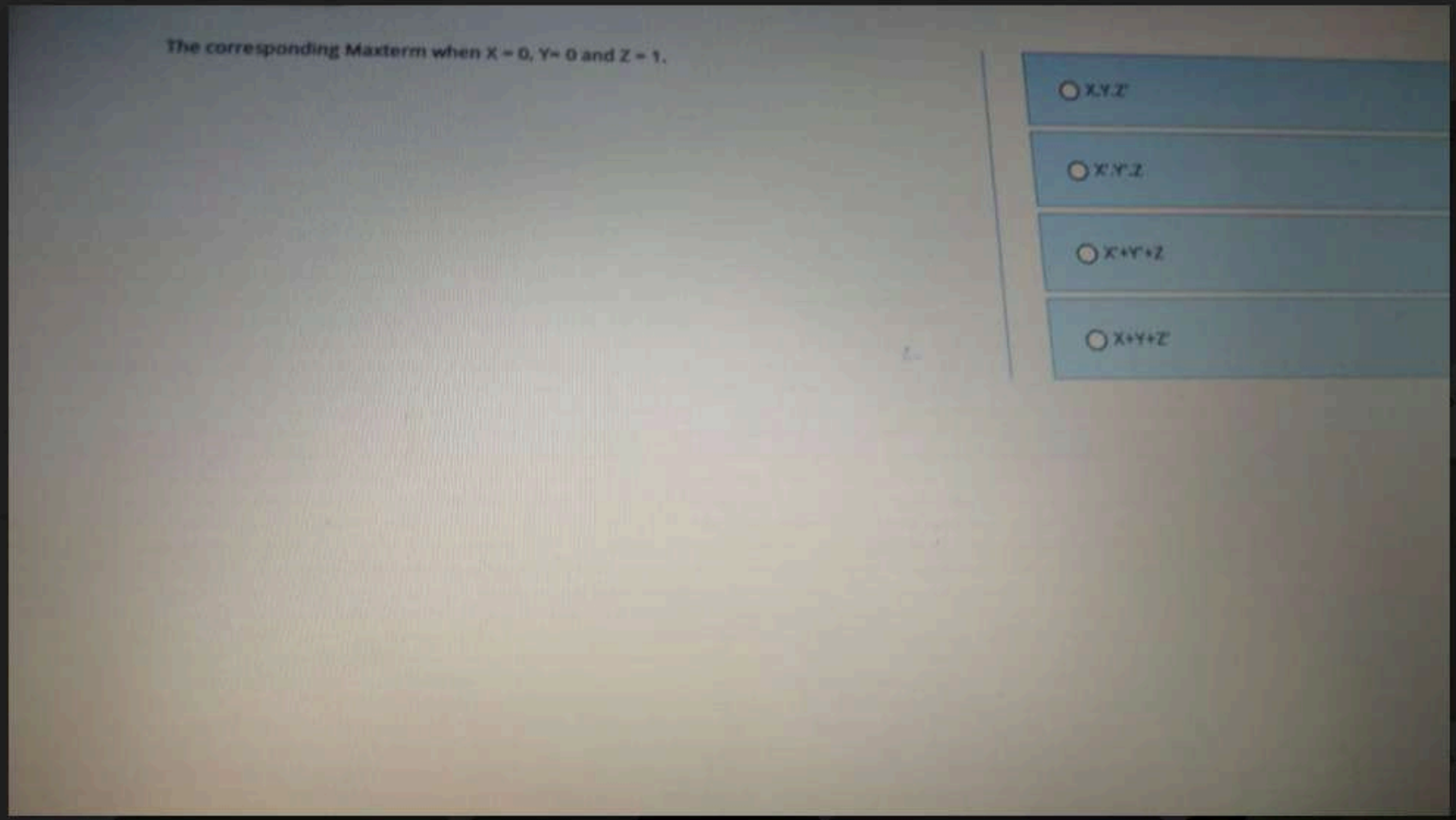

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A voltage V = 300 cos 100 t is applied to a HWR with RL = 5 KΩ ?, the rectifier may be represented by an ideal diode in series with a resistance of 1KΩ ?. The value of Im is given as

- 50 mA
- 500mA
- 56.56 mA
- 52 mA

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When a diode is forward-biased

- the current is produced by both holes and electrons
- the only current is hole current
- the only current is electron current
- the only current is produced by majority carriers

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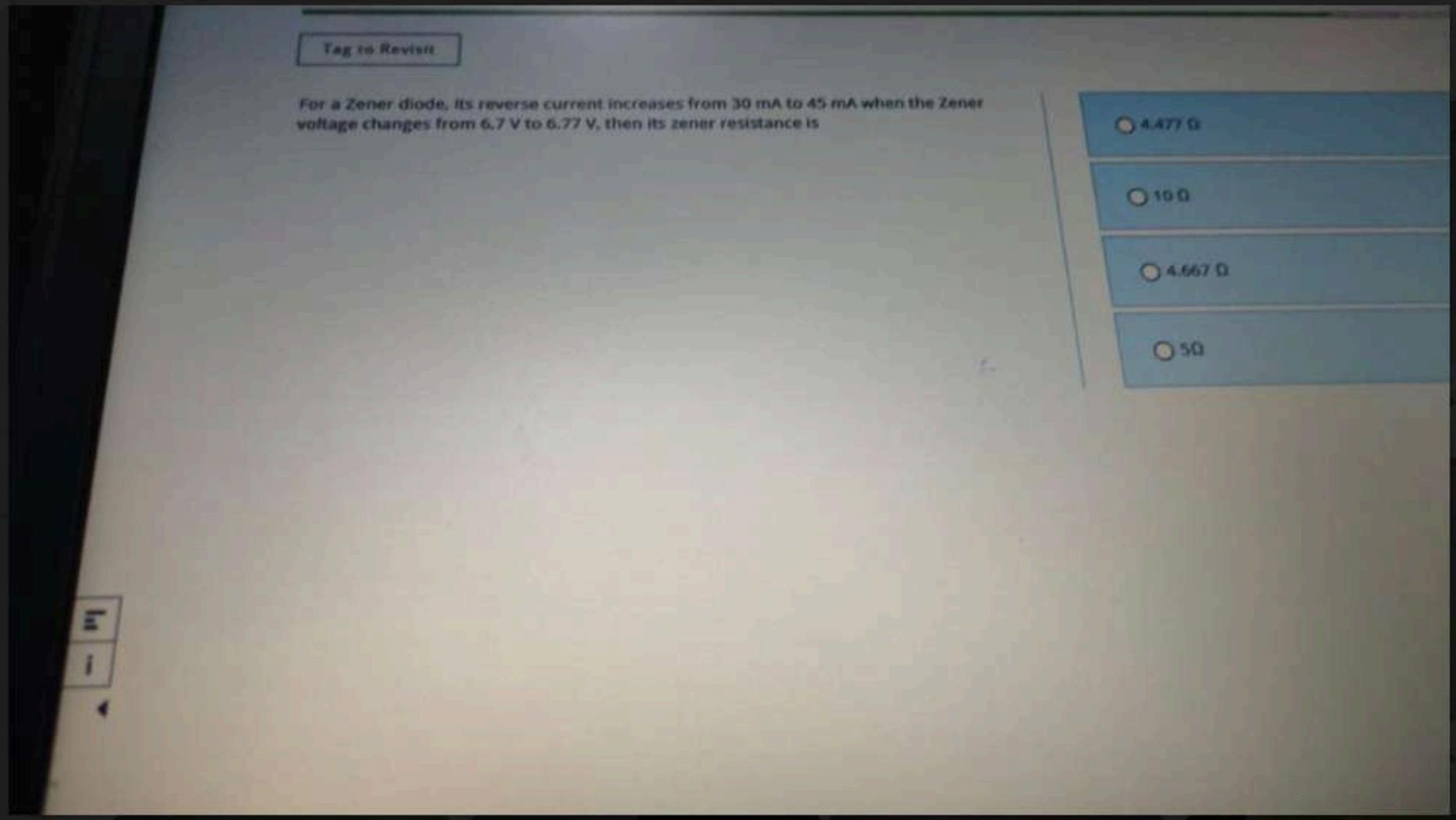

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Sum expression of half adder with inputs A and B is .....

- A'B + AB'
- AB
- A+B
- AB + A'B'

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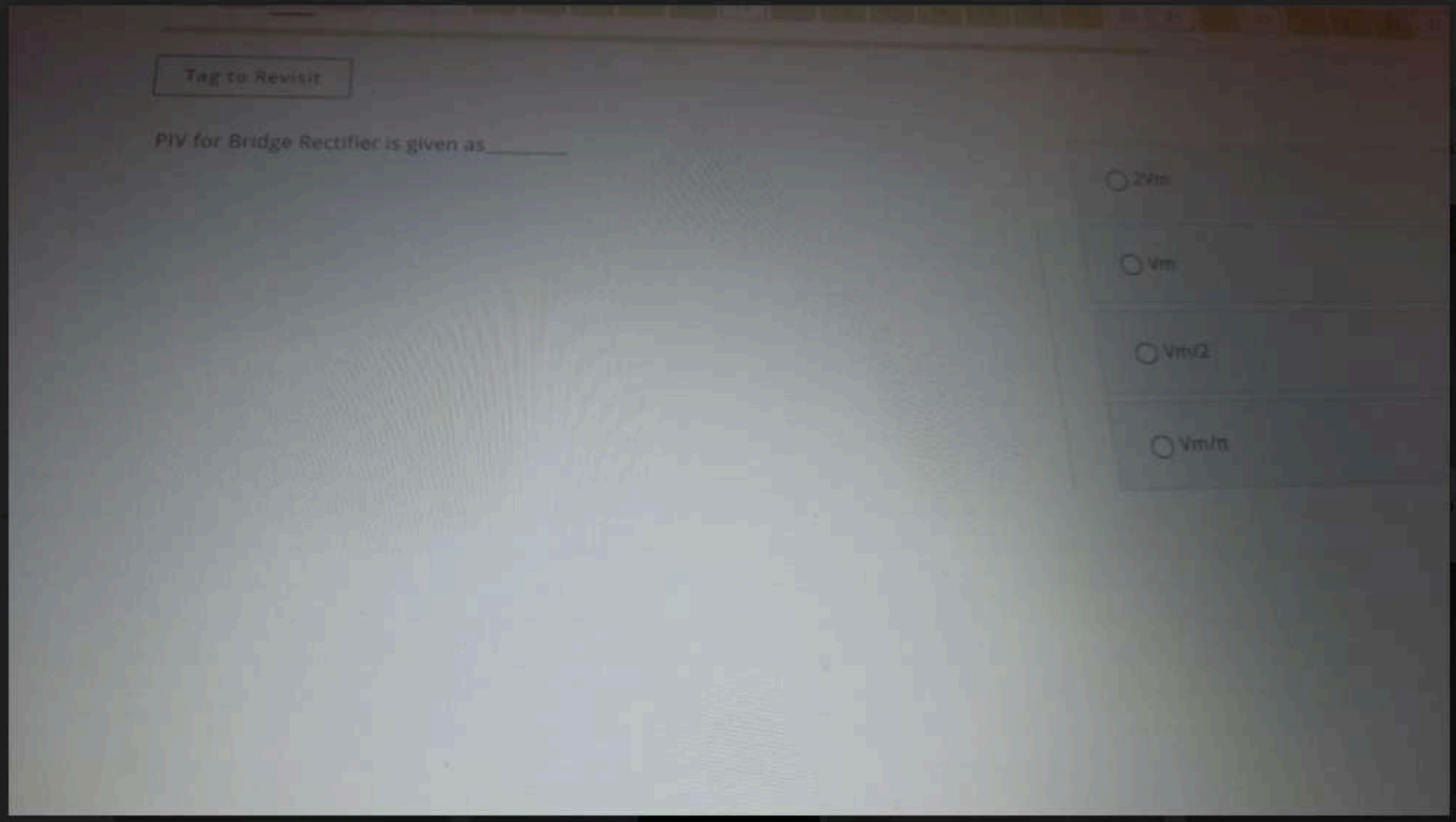

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A power-supply transformer has a turns ratio of 5:1. What is the secondary voltage if the primary is connected to a 120 V rms source?

- 24 Vrms
- 48 Vrms
- 60 Vrms
- 15 Vrms

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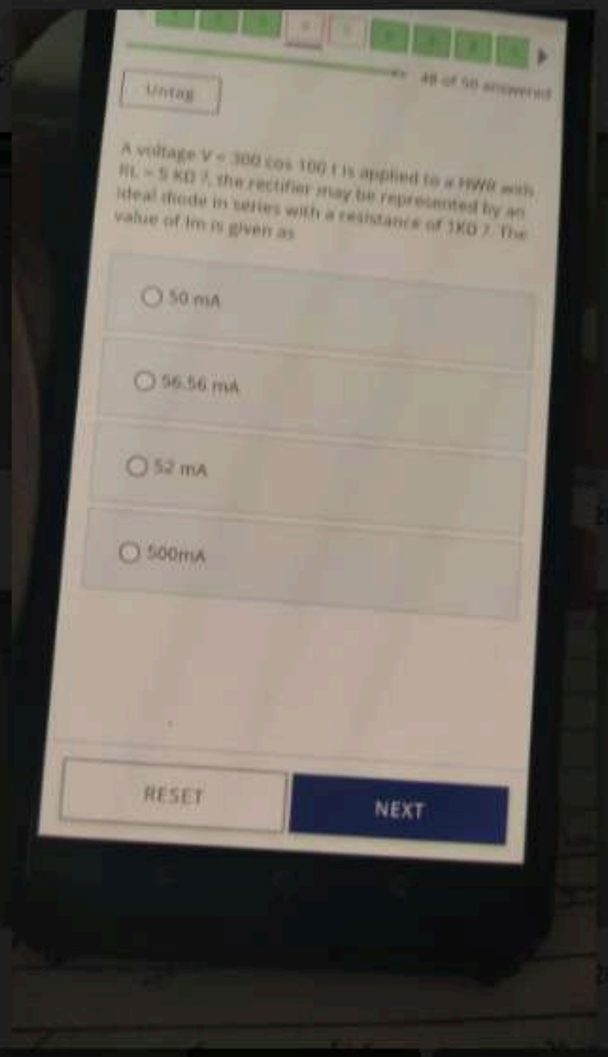

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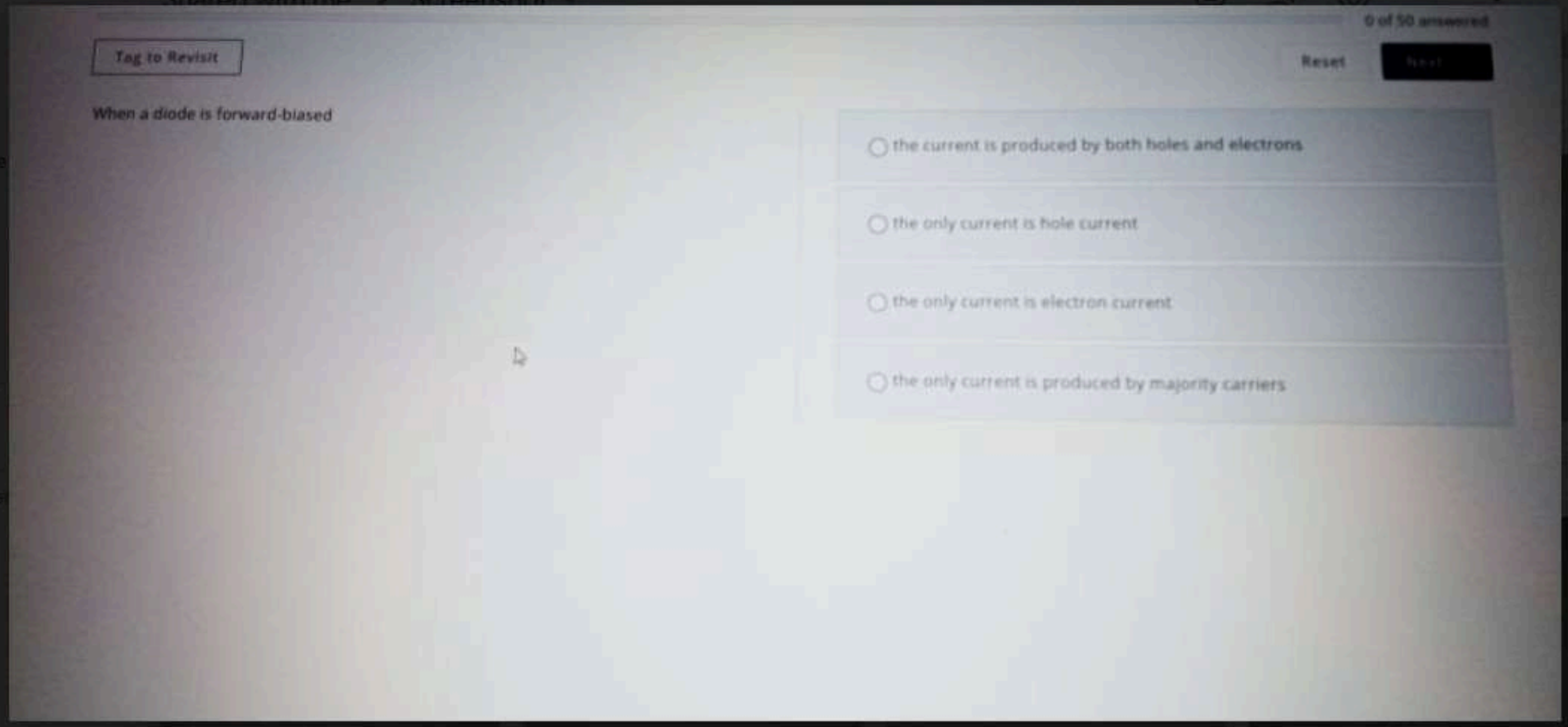

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Tag to Revisit

Three different Q points are shown on a dc load line. The upper Q point represents the:

- cutoff point
- intermediate current gain
- minimum current gain
- maximum current gain

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By Superposition Principle if only 10V source is acting IAB1 = 5 A from A to B and if only 20 V source is acting IAB2 is 3.8 A from B to A. What will be the current when both the sources are acting simultaneously?

- 1.2 A from A to B
- 1.2 A from B to A
- 5.2 A from A to B
- 11.2 A from A to B

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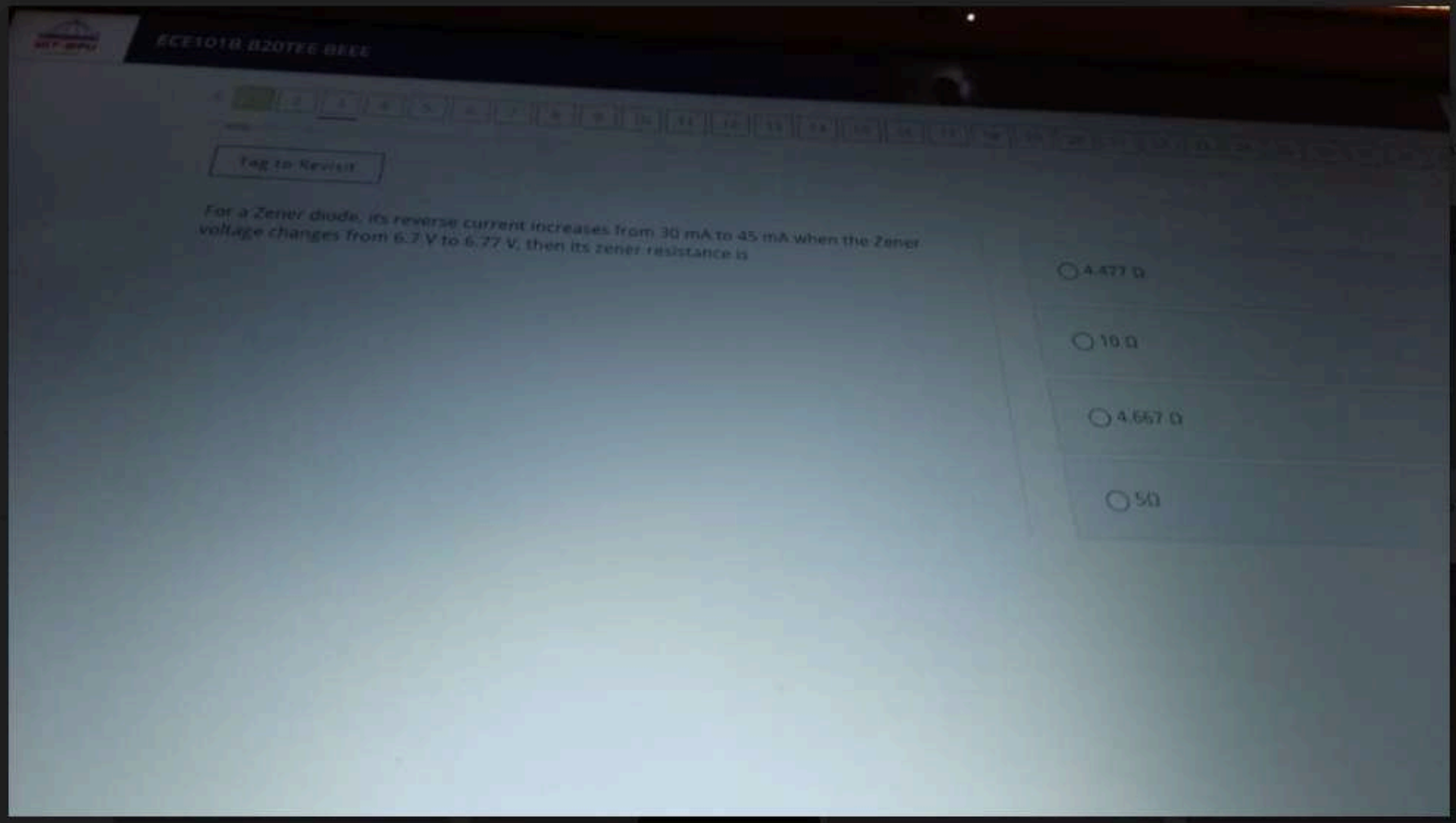

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If for star network R1= 15 Ω R2 = 10 Ω and R3 = 20 Ω. Find R23

43.33Ω

15 ohm

5 ohm

7.5 ohm

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Got it!

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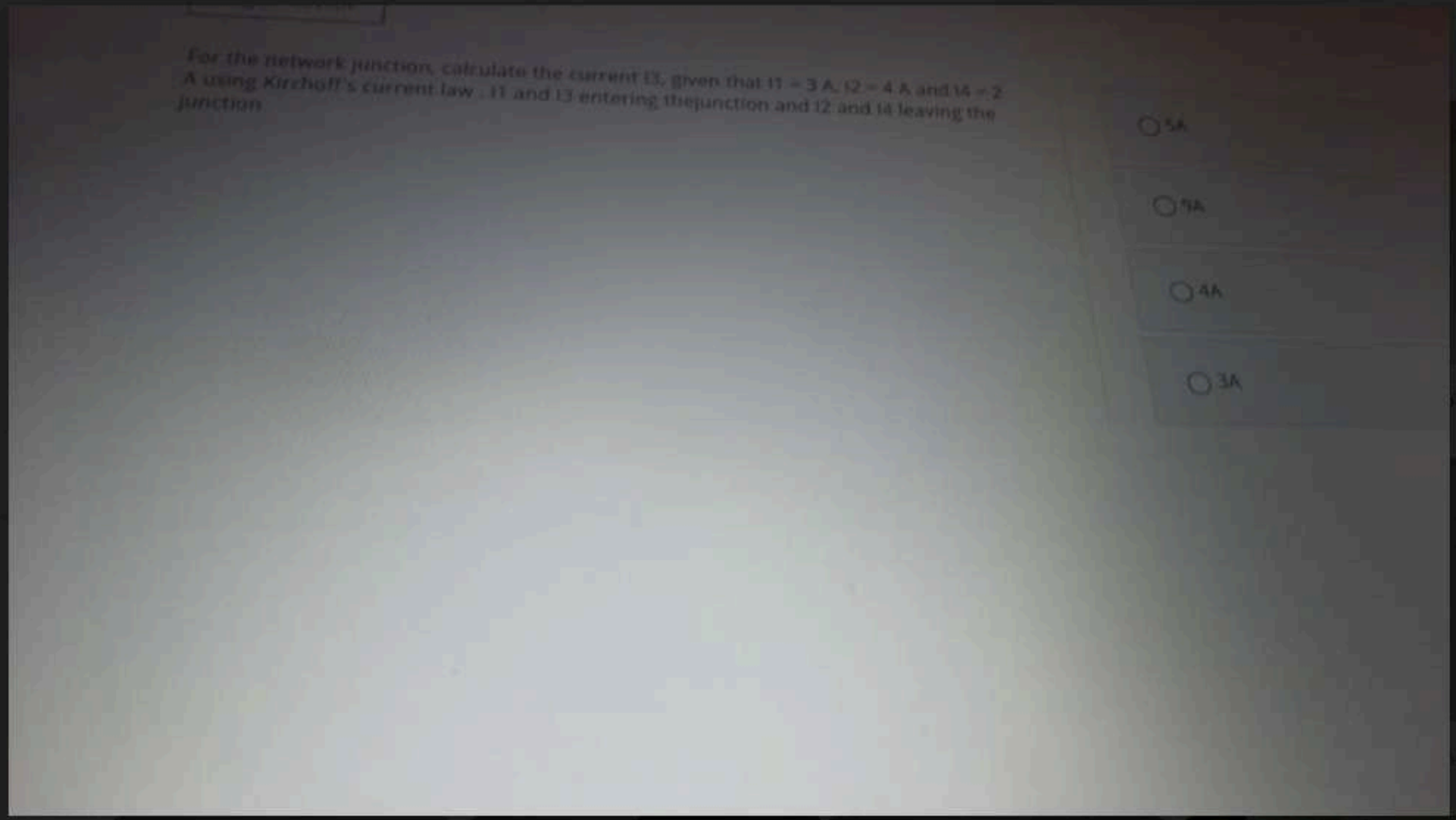

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A bridge rectifier uses a capacitor of 100 μF as a filter with a load resistance of 1 KΩ. Its ripple factor for frequency of 50 Hz is

- 0.288
- 0.144
- 0.0144
- 0.0288

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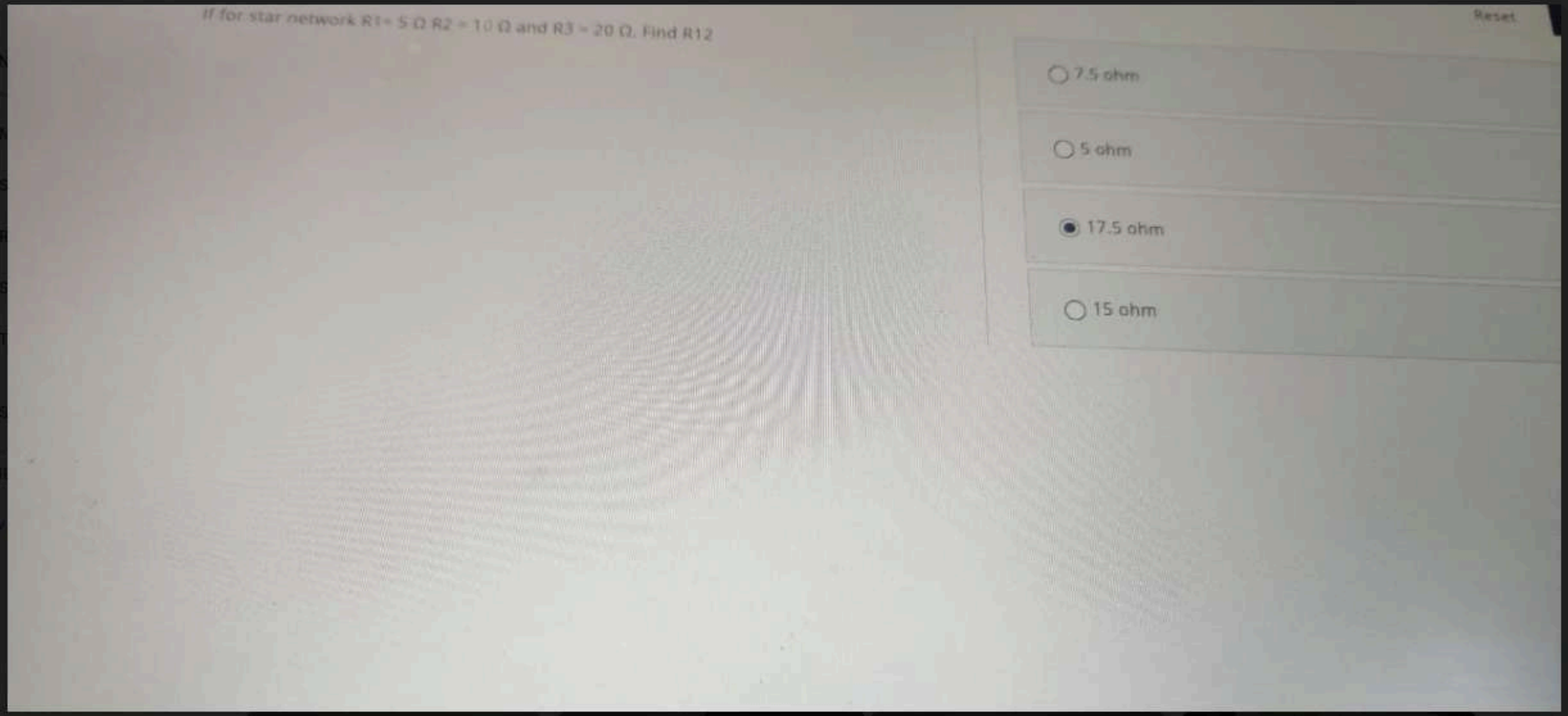

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Tag to Revisit

Reset

Next

A half wave rectifier with RL = 1k? is given an input of 10 V peak from a step-down transformer. DC load voltage using ideal diode is

- 3.18V
- 2.13V
- 9.18 V
- 5.18 V

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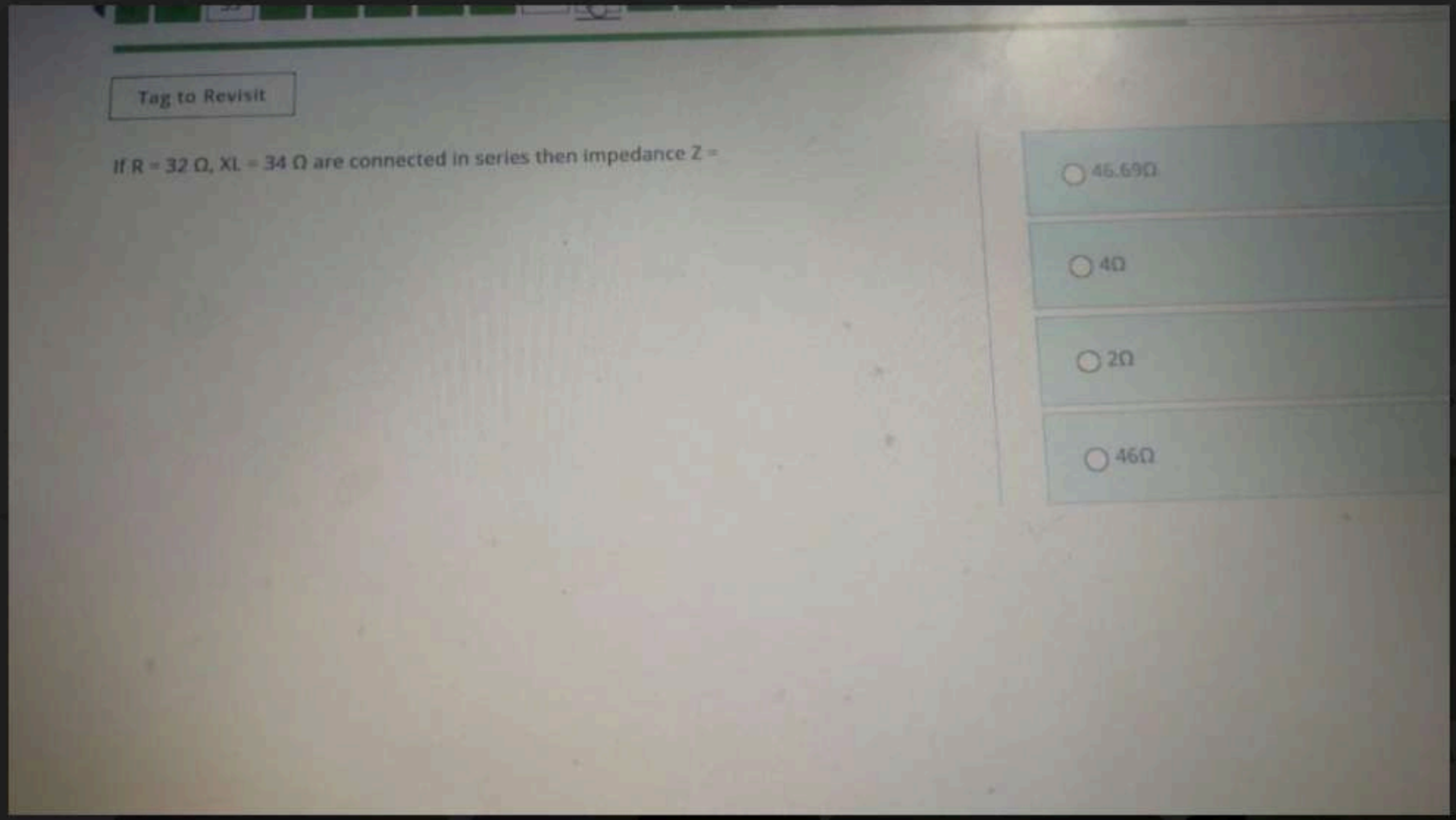

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

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Tag to Revisit

Reset

Next

A certain inverting amplifier has input signal voltage is 10 mVrms, R1 of 100 kΩ and Rf of 100 kΩ, find the output voltage.

- -10mVrms, out of phase
- -10Vrms, out of phase
- -10mVrms, in phase
- -1Vrms, out of phase

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A half wave rectifier with RL = 1k? is given an input of 10 V peak from a step-down transformer. DC load voltage using ideal diode is

- 9.18 V
- 2.13V
- 3.18V
- 5.18 V

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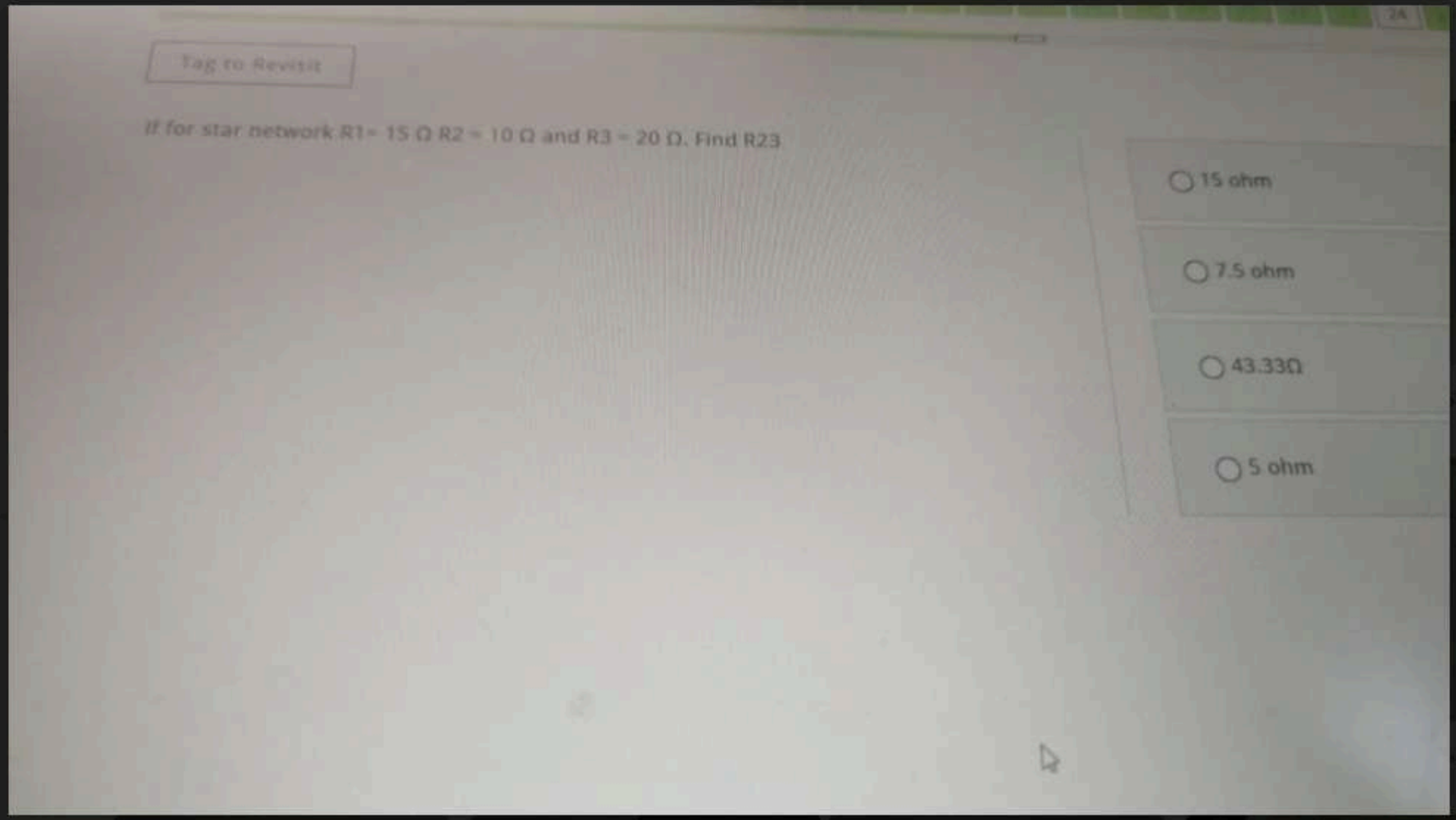

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Tag to Revisit

A certain inverting amplifier has input signal voltage is 10 mVrms, R1 of 100 kΩ and Rf of 100 kΩ, find the output voltage.

- -10Vrms, out of phase
- -10mVrms, in phase
- -10mVrms, out of phase
- -1Vrms, out of phase

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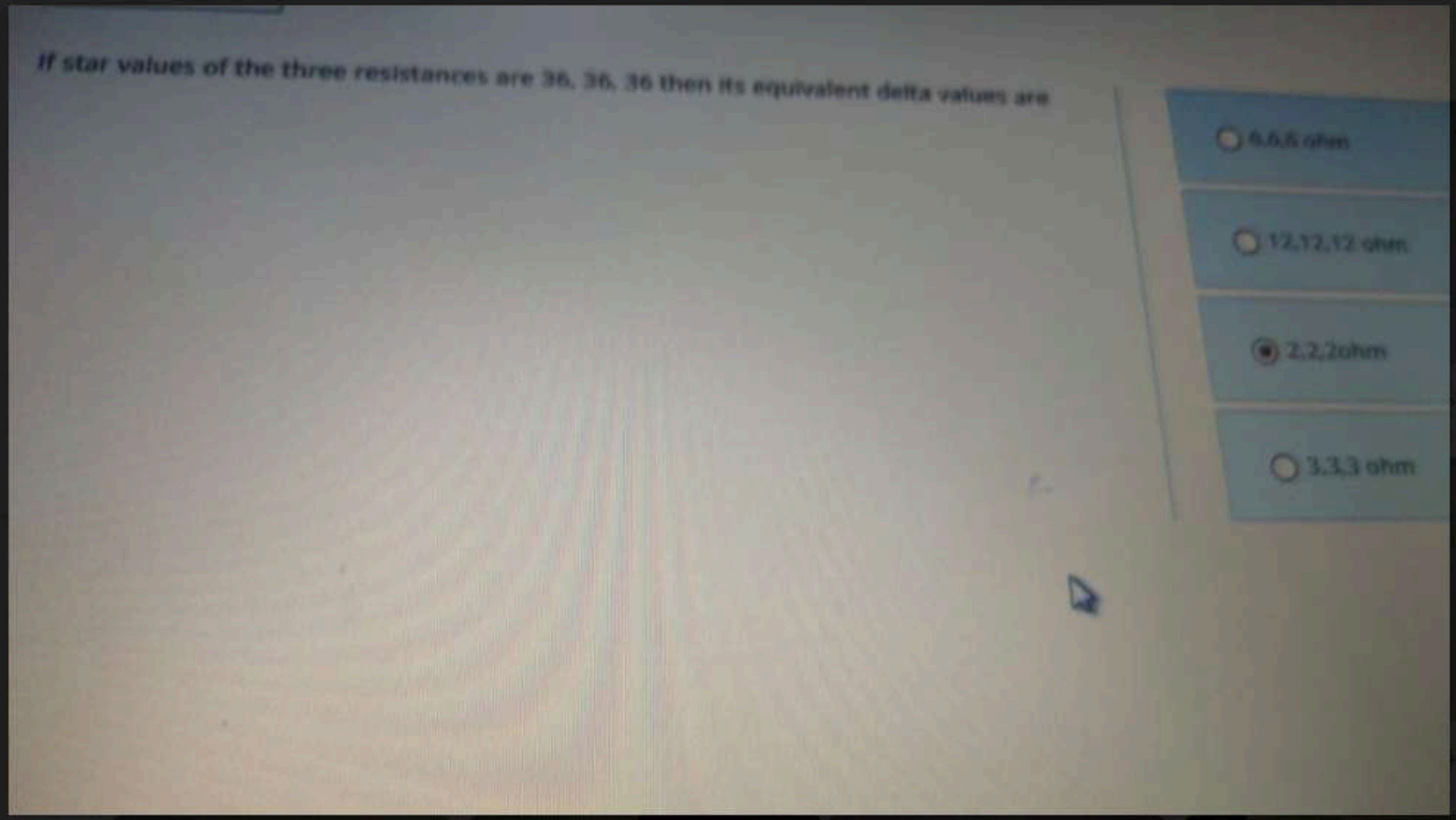

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An ideal transformer will have maximum efficiency at a load such that _____

- copper loss < iron loss
- cannot be determined
- copper loss = iron loss
- copper loss > iron loss

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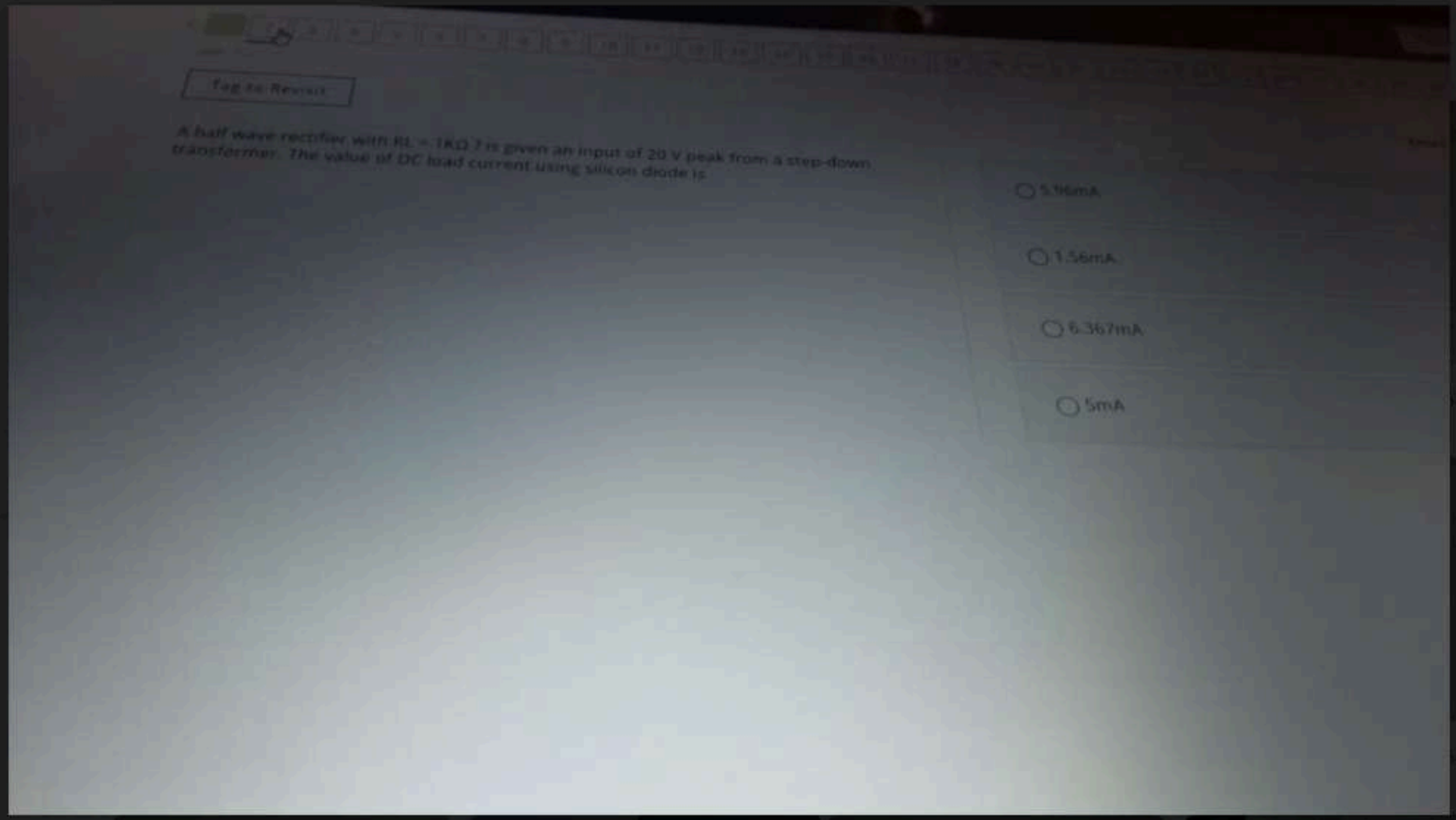

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Super position theorem can be applied only to circuits having elements

- Non linear
- Resistive
- Passive
- Linear bilateral

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A 12 mA current source has an internal resistance, RS, of 1.2 kΩ. The equivalent voltage source is

- 7.2 V
- 72 mV
- 144 V
- 14.4 V

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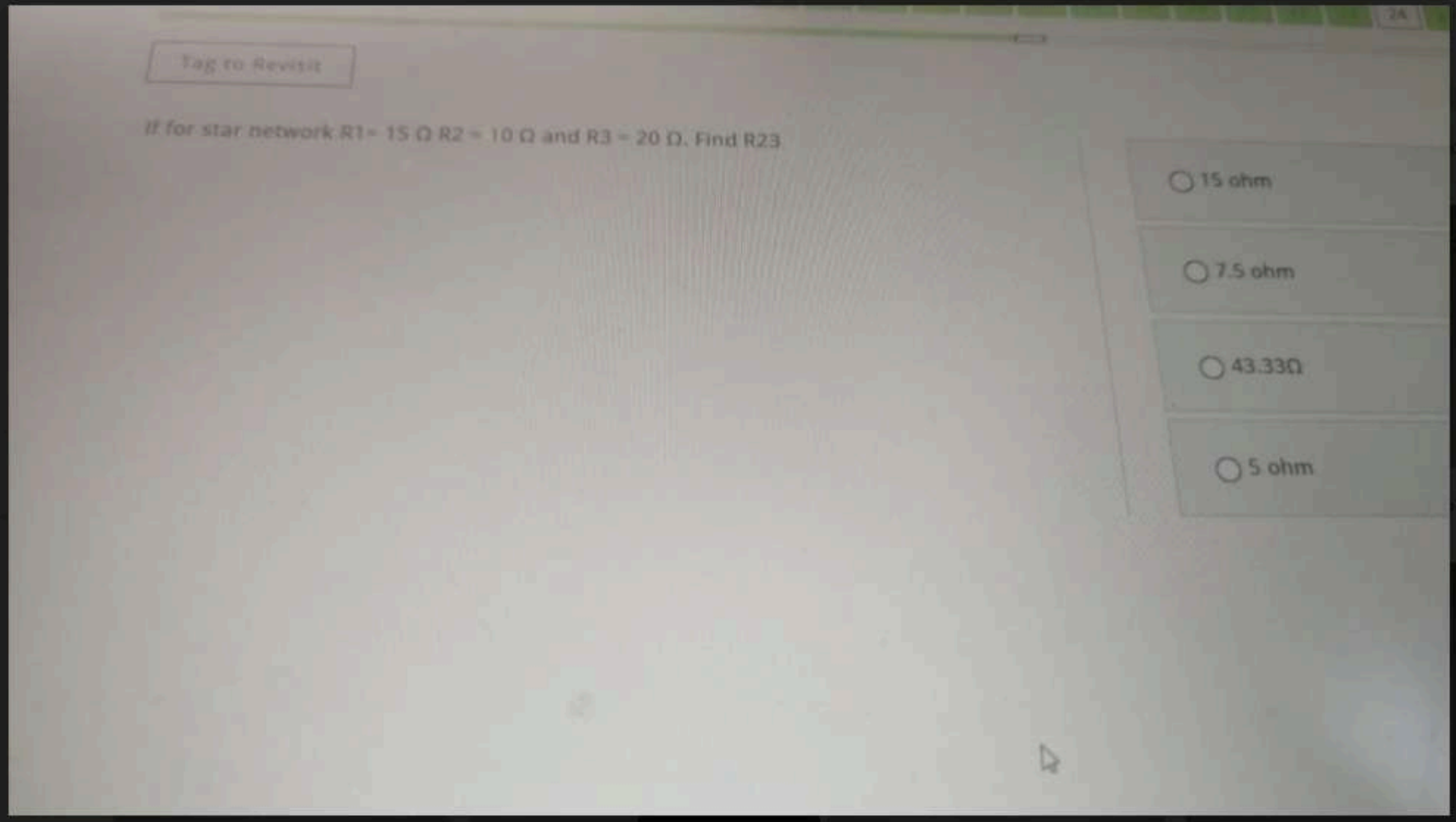

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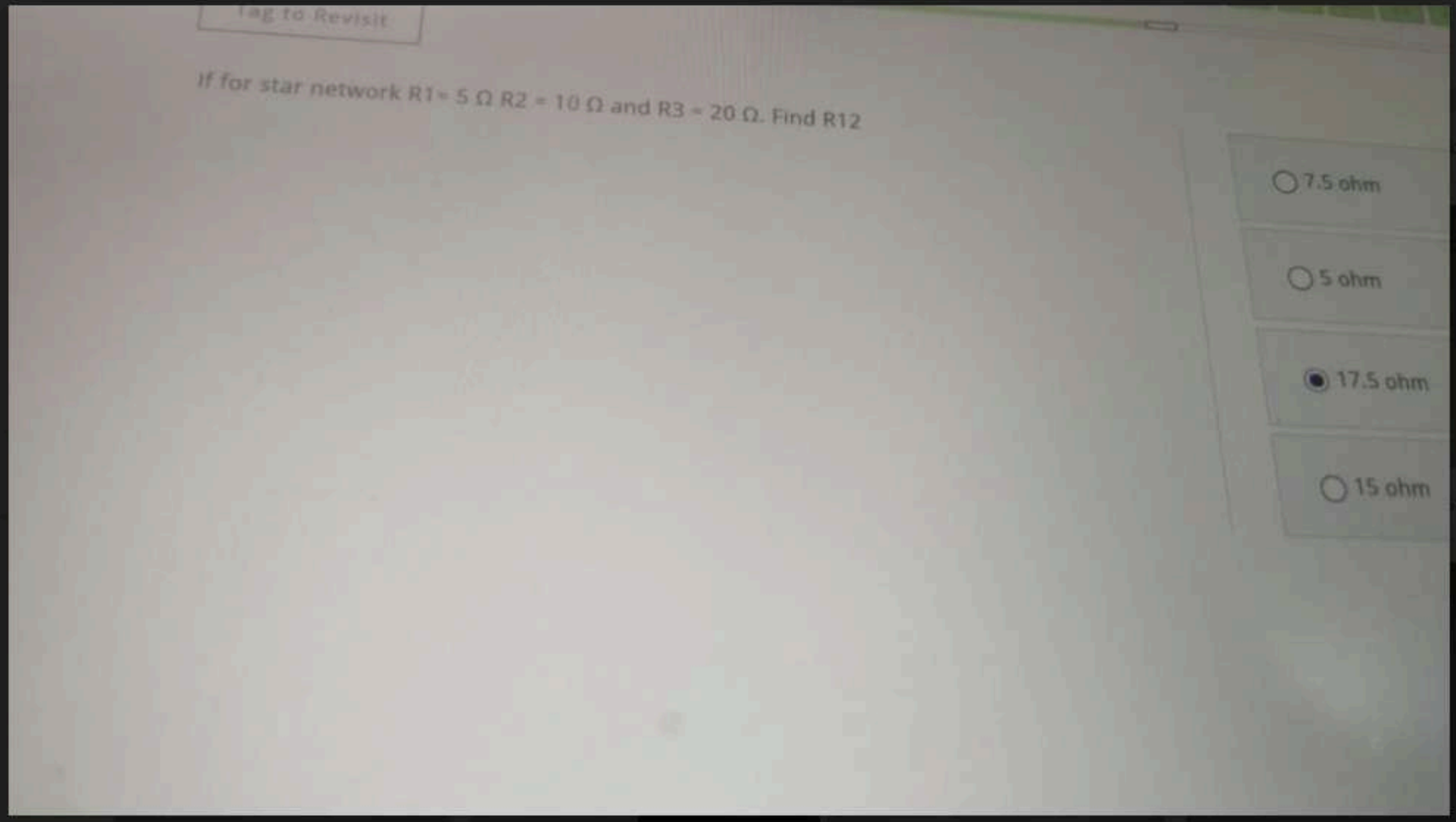

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A bridge rectifier uses a capacitor of 100 μF as a filter with a load resistance of 1 KΩ. Its ripple factor for frequency of 50 Hz is

- 0.288
- 0.144
- 0.0144
- 0.0288

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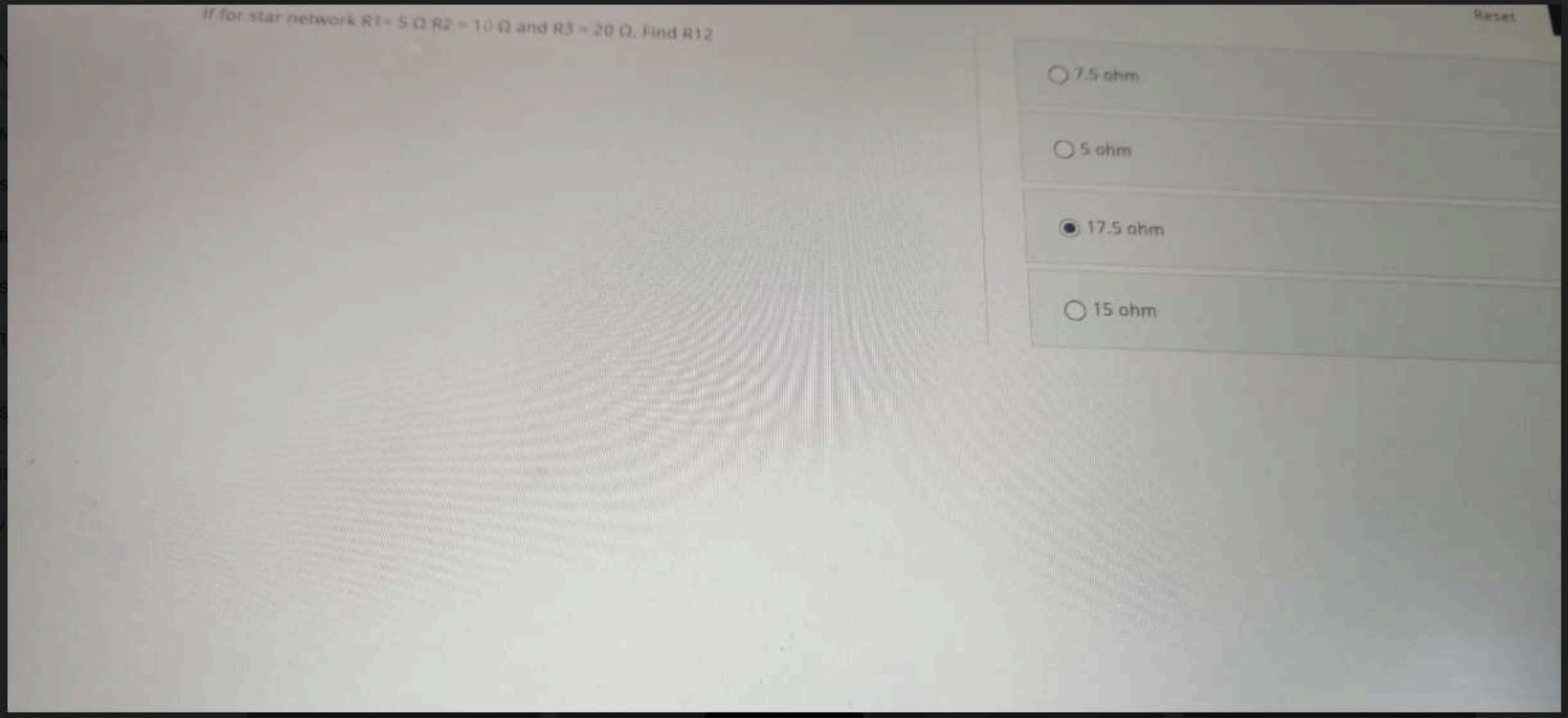
If for star network R1= 5 Ω R2 = 10 Ω and R3 = 20 Ω, Find R12
Reset
7.5 ohm
5 ohm
17.5 ohm
15 ohm

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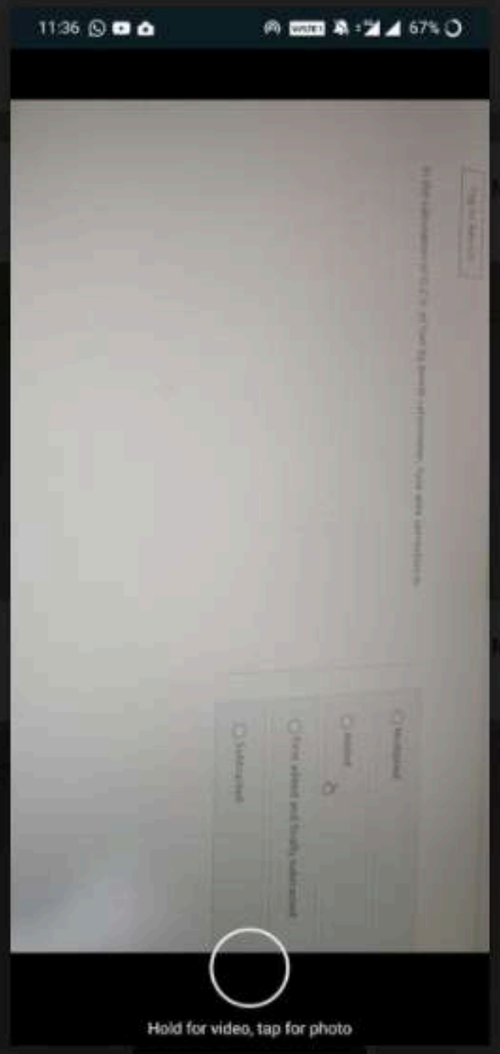

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Tag to Revisit

If for delta network R12 = 15 Ω R23 = 10 Ω and R31 = 20 Ω. Find R2

30.33Ω

6.33Ω

3.33Ω

9.33Ω

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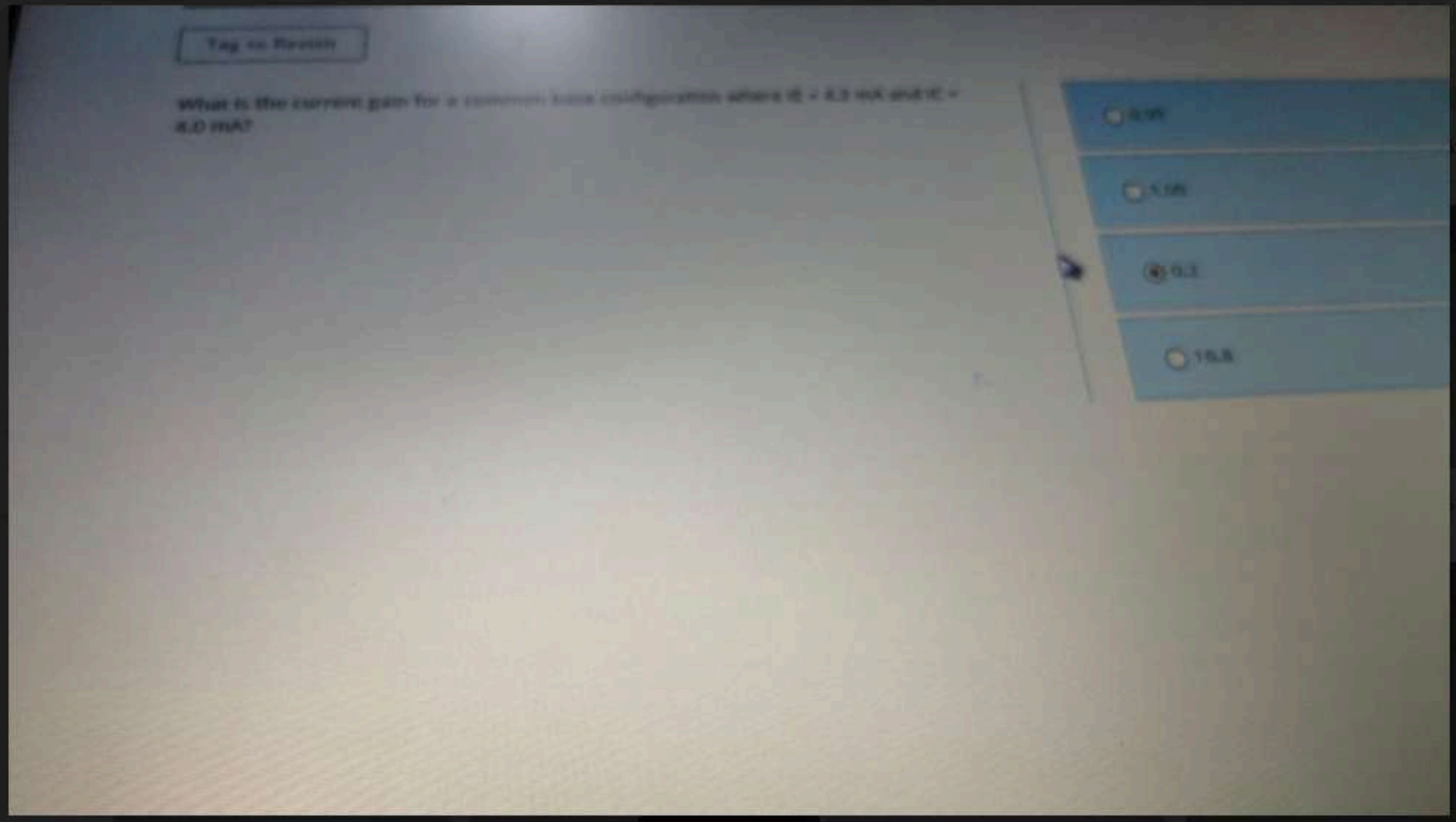

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Tag to Revisit

The corresponding Maxterm when X = 0, Y= 0 and Z = 1.

- X'Y'Z'
- X'Y'Z
- X'+Y'+Z
- X+Y+Z'

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Tag to Revisit

Reset

A voltage V = 300 cos 100 t is applied to a HWR with RL = 5 KΩ ?, the rectifier may be represented by an ideal diode in series with a resistance of 1KΩ ?. The value of Im is given as

- 50 mA
- 500mA
- 56.56 mA
- 52 mA

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Tag to Revisit

The peak value of a sine wave is 200 V. Its average value is

- 282.8 V
- 127.4 V
- 200V
- 141.4 V

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When a diode is forward-biased

- the current is produced by both holes and electrons
- the only current is hole current
- the only current is electron current
- the only current is produced by majority carriers

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Tag to Revisit

When an AC source is connected across the resistive circuits,

- I and V are in phase
- V lags I current by 90 degrees
- V leads I by 180 degrees
- V leads I by 90 degrees

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Tag to Revisit

If the star connected circuit is transformed into delta connected circuit, which of the following statement is true?

- Ra = R3/R1 R2 + R2R3+ R1R3
- Ra = R1R2+ R2R3+ R1R3 /R3
- Ra = R3/R1+ R2
- Ra = R1 + R2 + R3 /R1 + R2

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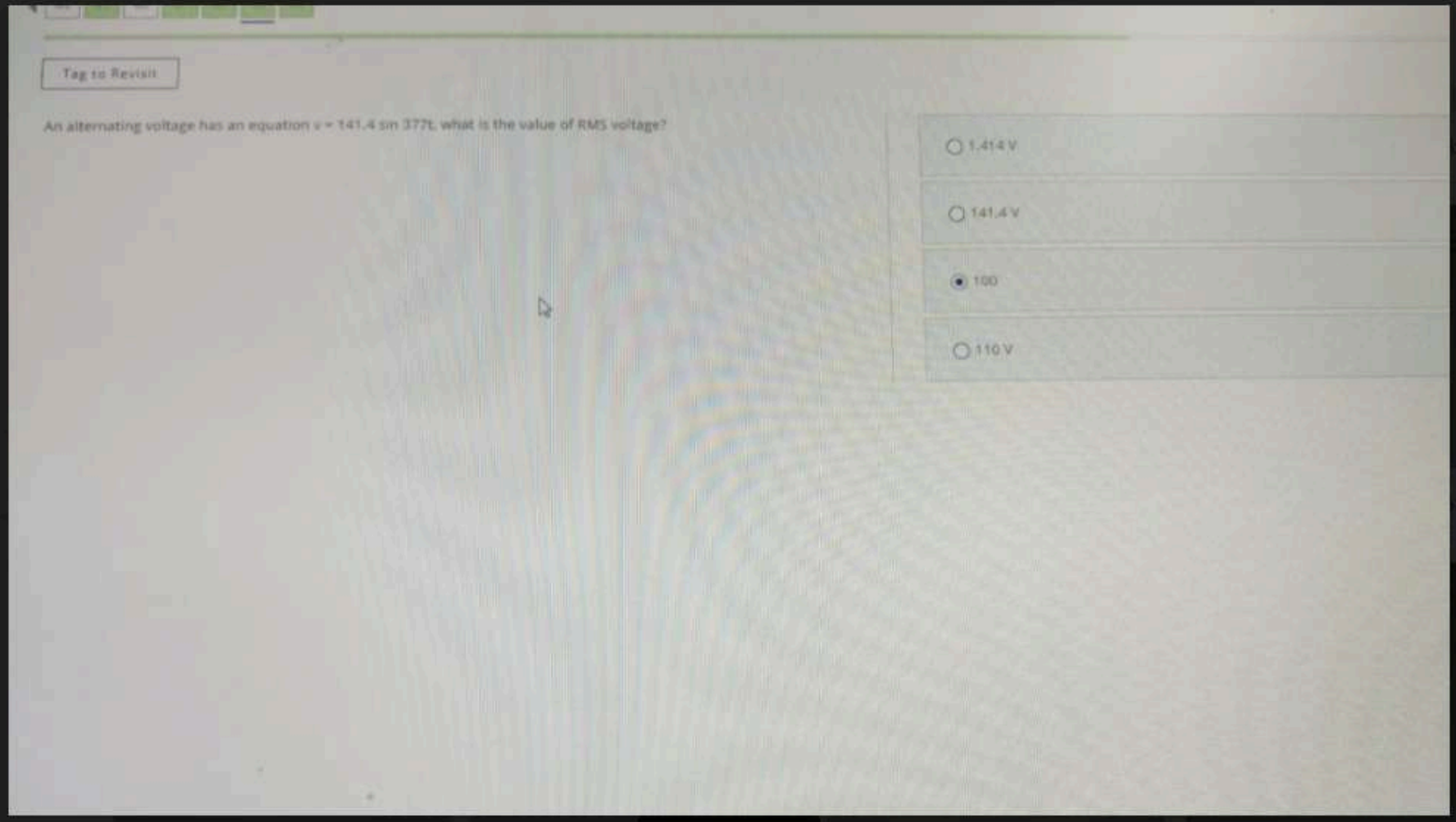

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Tag to Revisit

A certain inverting amplifier has input signal voltage is 10 mVrms, R1 of 100 kΩ and Rf of 100 kΩ, find the output voltage.

- -10Vrms, out of phase
- -10mVrms, in phase
- -10mVrms, out of phase
- -1Vrms, out of phase

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Tag to Revisit

Reset

Calculate current I2 in the parallel network consisting of R1 = 20 Ω and R2 = 25 Ω and supply voltage is 100 V. I1 and I2 are the currents flowing through R1 and R2 respectively .

- 12A
- 9A
- 5A
- 4A

Tag to Revisit

Reset

If self inductance is given by L, current is I then self induced EMF is given by

- e= -L dI/dt
- e= -N dI/dt
- e= -L dφ/dt
- e= -N dL/dt

Tag to Revisit

Value of Open-loop voltage gain, Go (V/V), of a practical OP-AMP is ..

- infinite
- zero
- 1000
- 200000

Tag to Revisit

For sinusoidal AC quantity V maximum is 200 V, frequency is 70 Hz, then voltage is expressed

- v=200 sin 140πt
- v=300 sin 120t
- v=70 sin 300t
- v=70 sin 120t

Tag to Revisit

While applying Super position Principle voltage source is replaced by a

- Short circuit
- Open circuit
- battery
- resistance

Tag to Revisit

Calculate current I1 in the parallel network consisting of R1 = 20 Ω and R2 = 25 Ω and supply voltage is 100 V. I1 and I2 are the currents flowing through R1 and R2 respectively .

- 5A
- 12A
- 4A
- 9A

Tag to Revisit

Reset Next >

A certain inverting amplifier has input signal voltage is 1 Vrms, R1 of 22 kΩ and Rf of 220 kΩ, find the output voltage.

- -10mVrms,out of phase
- -10Vrms, out of phase
- -10Vrms, out of phase
- -10Vrms, out of phase

Untag

A voltage V = 300 cos 100 t is applied to a HWR with RL = 5 KΩ ?, the rectifier may be represented by an ideal diode in series with a resistance of 1KΩ ?. The value of Im is given as

- 50 mA
- 56.56 mA
- 52 mA
- 500mA

RESET

NEXT

Tag to Revisit

If R = 32 Ω, XL = 34 Ω are connected in series then impedance Z =

- 46.69Ω
- 4Ω
- 2Ω
- 46Ω

Which is the correct sequential order of steps to be undertaken while applying Thevenin's theorem? A. Calculation of Thevenin's equivalent voltage B. Removal of branch impedance through which required current is to be estimated C. Estimation of equivalent impedance between two terminals of the branch D. Estimation of branch current by schematic representation of Thevenin's equivalent circuit

- B, C, D, A
- D, A, C, B
- B, A, C, D
- A, C, B, D

Tag to Revisit

In series rasonant circuit, impedance is ____

- ○ Minimum
- ○ None
- ○ Maximum
- ○ Zero

When an AC signal is connected across the capacitive circuits,

- V lags I by 90 degrees
- V leads I by 90 degrees
- I and V are in phase
- V leads I by 180 degrees

Tag to Revisit

Calculate current I2 in the parallel network consisting of R1 = 20 Ω and R2 = 25 Ω and supply voltage is 100 V. I1 and I2 are the currents flowing through R1 and R2 respectively .

- 12A
- 9A
- 5A
- 4A

Tag to Revisit

Reset Next

If $R1 = 2\ \Omega$, $R2 = 4\ \Omega$, $R3 = 8\ \Omega$ are connected in series and 2 A current is flowing through the series combination. Voltage drop VR2 =

- 4 V
- 16 V
- 28 V
- 8 V

Tag to Revisit

Reset

If R1 = 2 Ω, R2 = 4 Ω, R3 = 8 Ω are connected in series and 2 A current is flowing through the series combination. Voltage drop VR2 =

- 4 V
- 16 V
- 28 V
- 8 V

Reset

Which of the following is the wrong expression?

- i1N2=i2N1
- i1N1=i2N2
- i1v1=i2v2
- v2N1=v1N2

Find the total voltage applied in a series RLC circuit when I = 3 mA, VL = 30 V, VC = 18 V and R = 1000 Ω.

- 3.95V
- 6.67V
- 32.67V
- 51 V

Tag to Revisit

If star values of the three resistances are 6,6,6 then its equivalent delta values are

- 18,18,18 ohm
- 2,2,2 ohm
- 6,6,6 ohm
- 16,16,16 ohm

Reset

A silicon transistor connected in common emitter configuration with voltage divider bias is shown in figure. If Vcc = 10V, Rc = 1 KΩ, R1 = 100 KΩ, R2 = 10 KΩ ,RE = 100 Ω. The Q point is at:

- 1.8 mA, 6.7V
- 1.2 mA, 7.8V
- 2.5 mA, 5.5 V
- 2 mA, 7.8 V

Tag to Revisit

A power-supply transformer has a turns ratio of 5:1. What is the secondary voltage if the primary is connected to a 120 V rms source?

- 24 Vrms
- 48 Vrms
- 60 Vrms
- 15 Vrms

Tag to Revisit

Reset Next

Calculate the total current in the parallel network consisting of R1 = 20 Ω and R2 = 25 Ω and supply voltage is 100 V. I1 and I2 are the currents flowing through R1 and R2 respectively .

- 9A
- 4A
- 12A
- 5A

Tag to Revisit

Holes in n-type semiconductor are

- minority carriers that are thermally produced
- majority carriers that are thermally produced
- minority carriers that are produced by doping
- majority carriers that are produced by doping

If R1 = 2 Ω, R2 = 4 Ω, R3 = 8 Ω are connected in series and 2 A current is flowing through the series combination. Voltage drop VR2 =

- 8 V
- 16 V
- 4 V
- 28 V

Tag to Revisit

Reset Next

Calculate the effective resistance of parallel combination of R1 = 6.8 Ω , R2 = 4.7 Ω and R3 = 2.2 Ω.

- 0.213 ohms
- 0.815 ohms
- 0.147 ohms
- 0.455 ohms