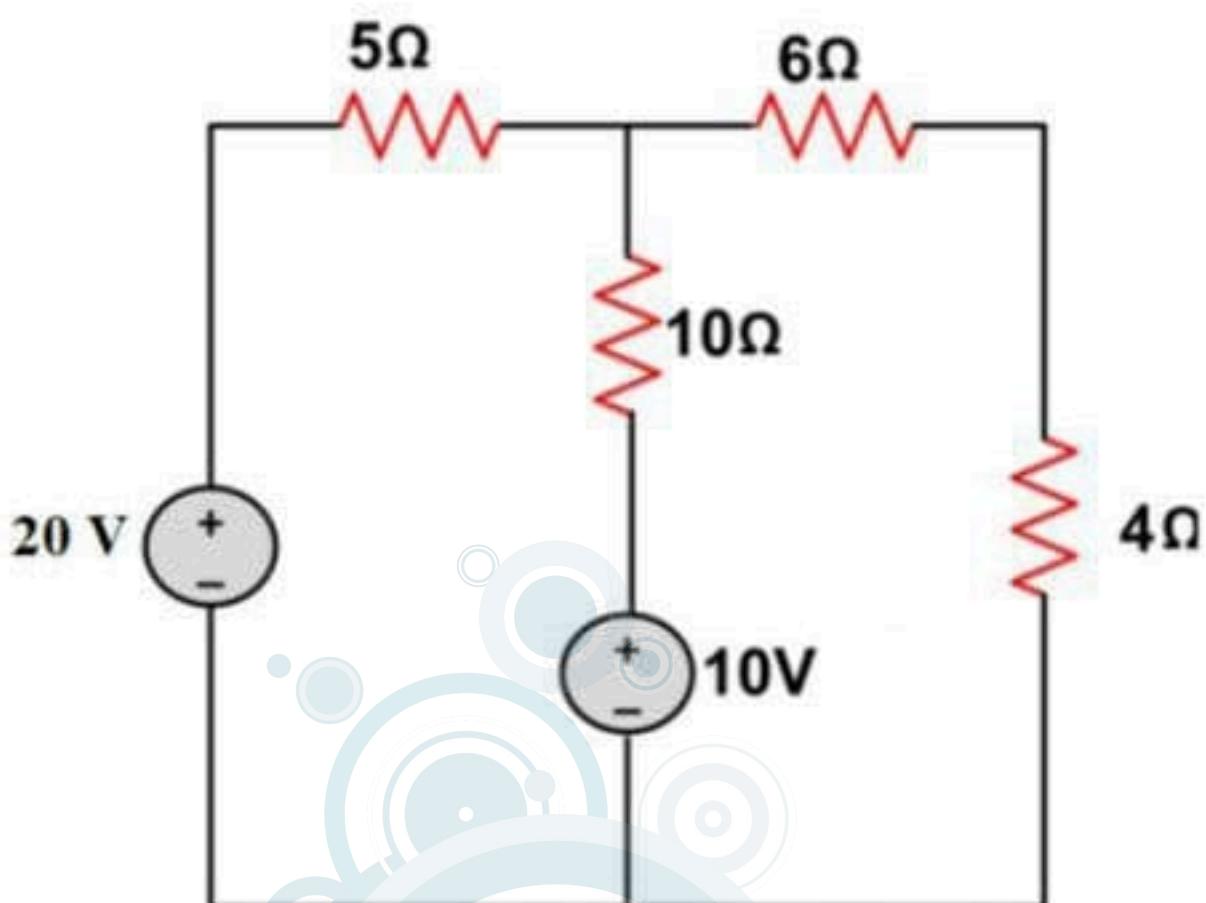


The power in (W) of the 10 V voltage source is



12.5 TEAM

2.5

10

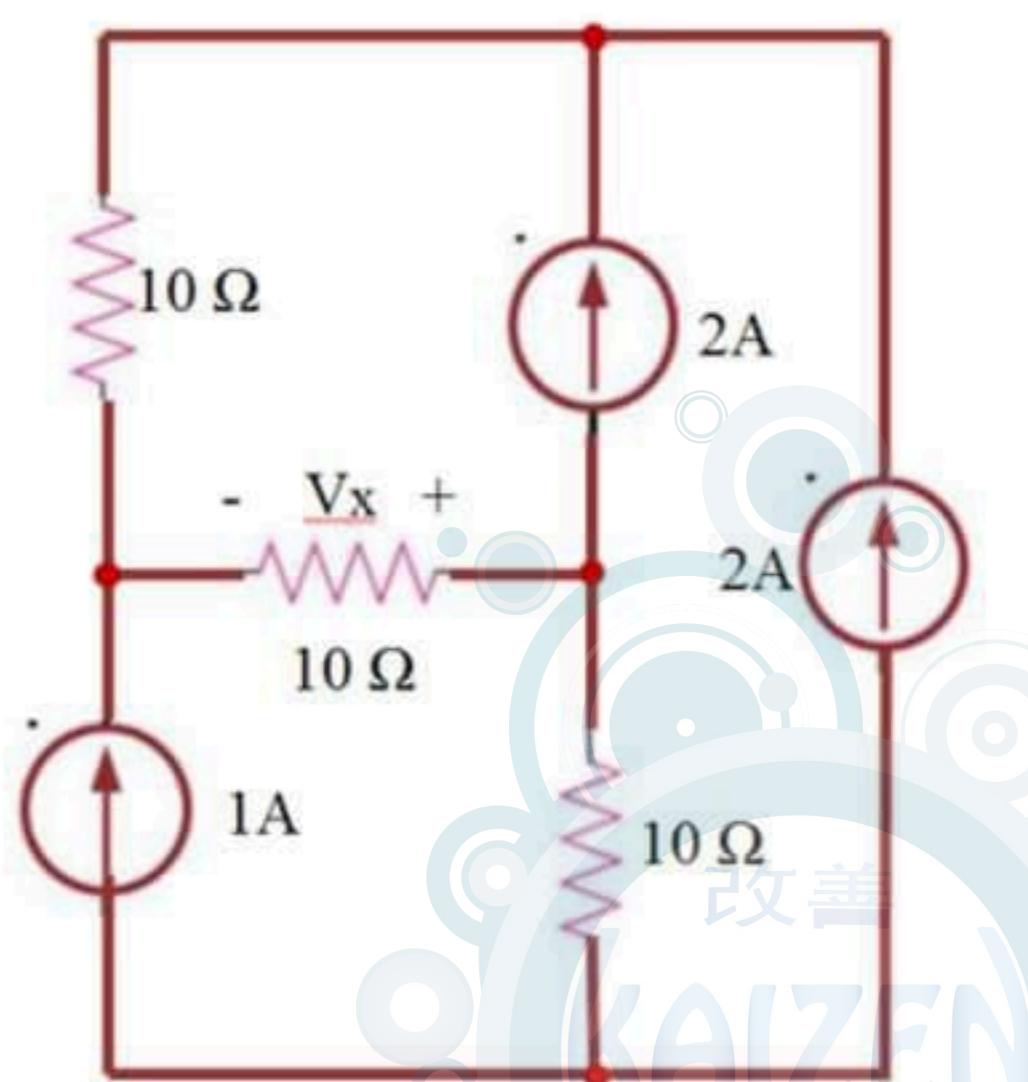
5

7.5



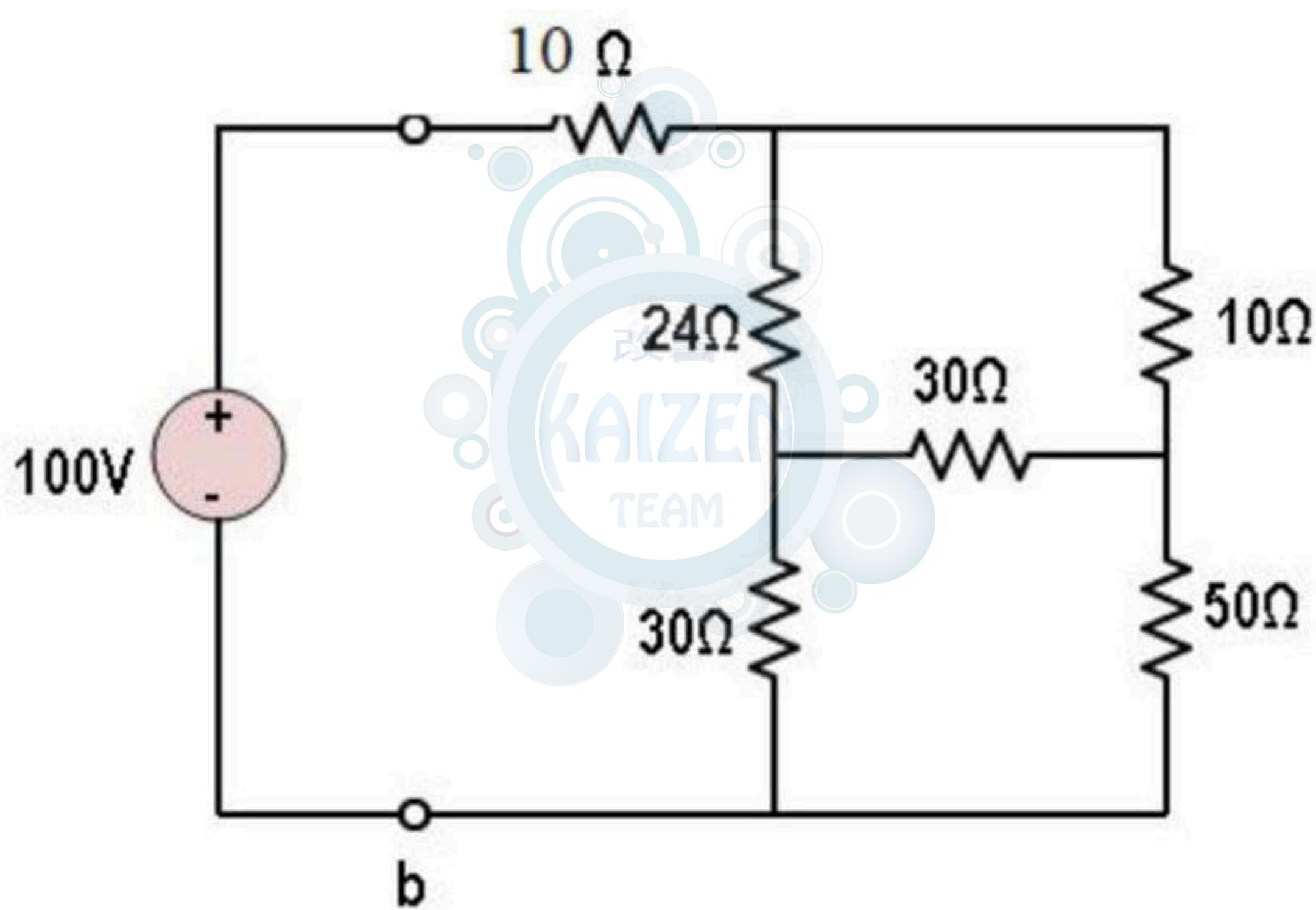
< Test: QZ-SM2021 - ALL ...

For the circuit shown below, the value of V_x (V) is:



- 70
 - 80
 - 60
 - 50
 - 50

Find R_{ab} in (ohm)



ut teams:



E-Meetings

...



Student Advisory Group/ Dr. Alkhaldi

...



0904441_101448_1_3_2020

...



EE_203_1_Summer

...



Summer_21 - E100 - section 6

...



Vibration & Noise Control

...



موضعی خاص در اساتذه سمتا

...



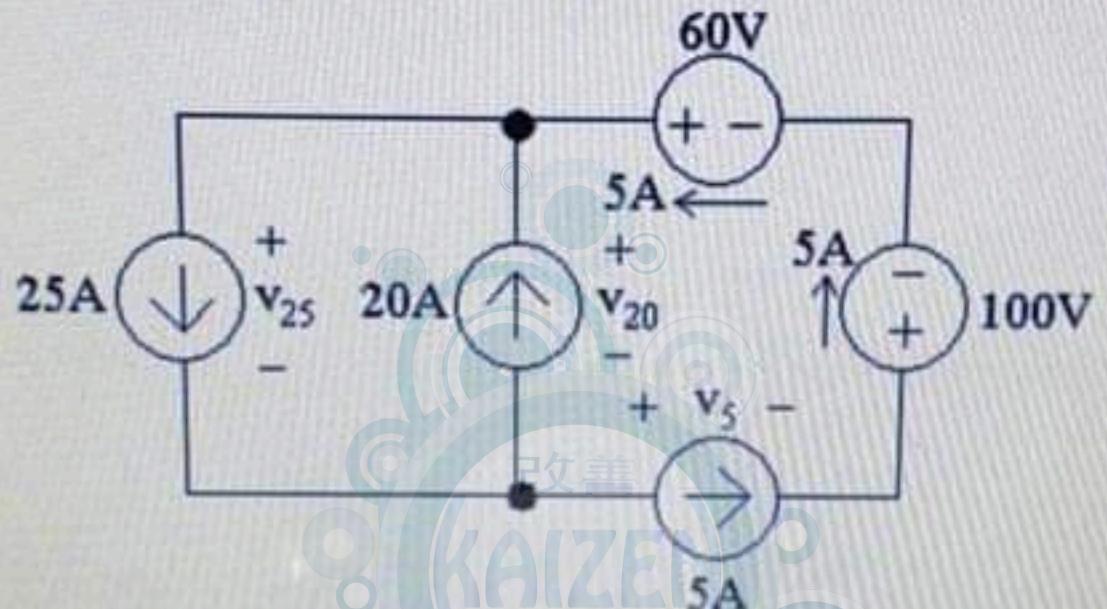
EE_203_All_Students_Exams

...

General

Hidden teams

The values of V_{25} , V_5 , V_{20} are given respectively



Q. Zoom image

50,25,-25

200,100,100

-200,10,100

300,150,-160

40, -80, 40

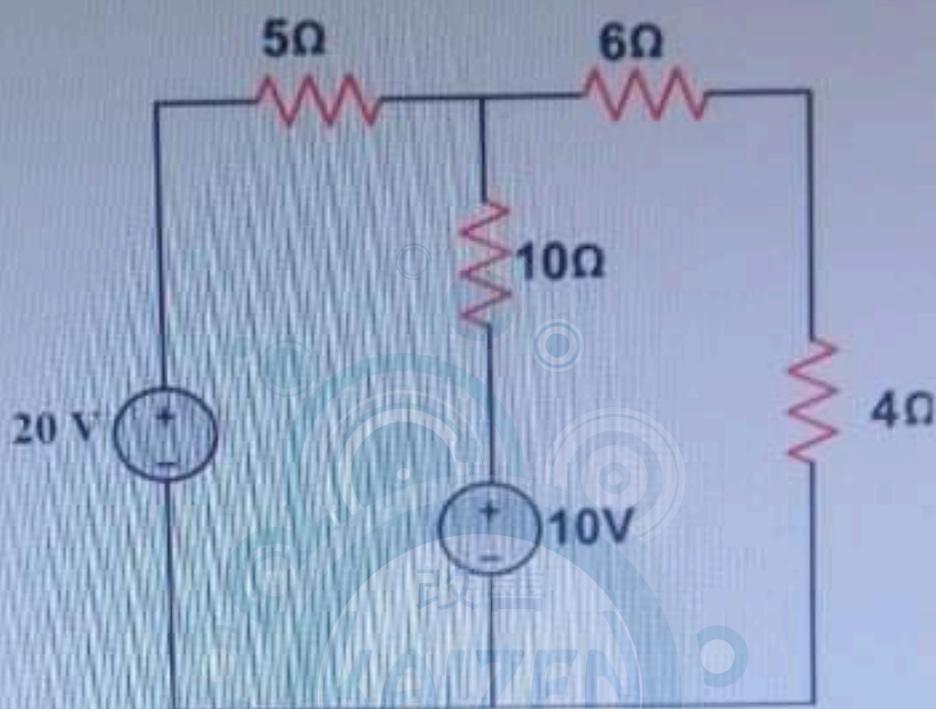
-100, 50, 50

Join or create a team



Question 1/5

The power in (W) of the 10 V voltage source is



2.5

5

10

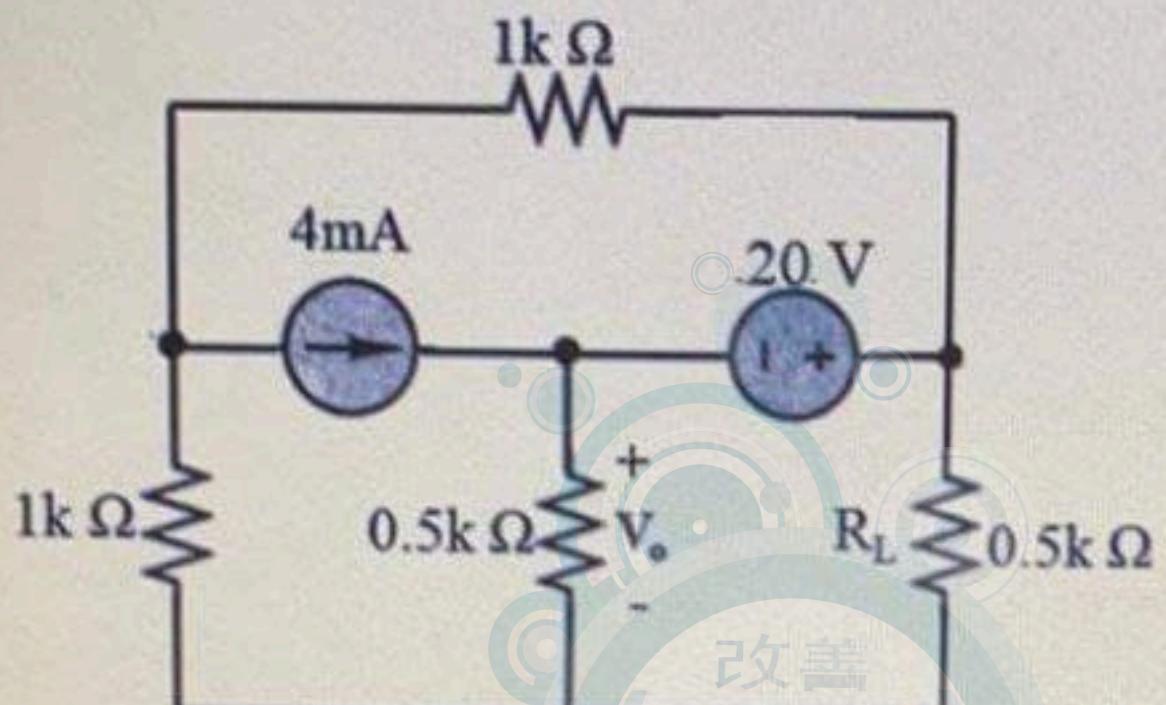
12.5

7.5



SUBMIT ANSWER

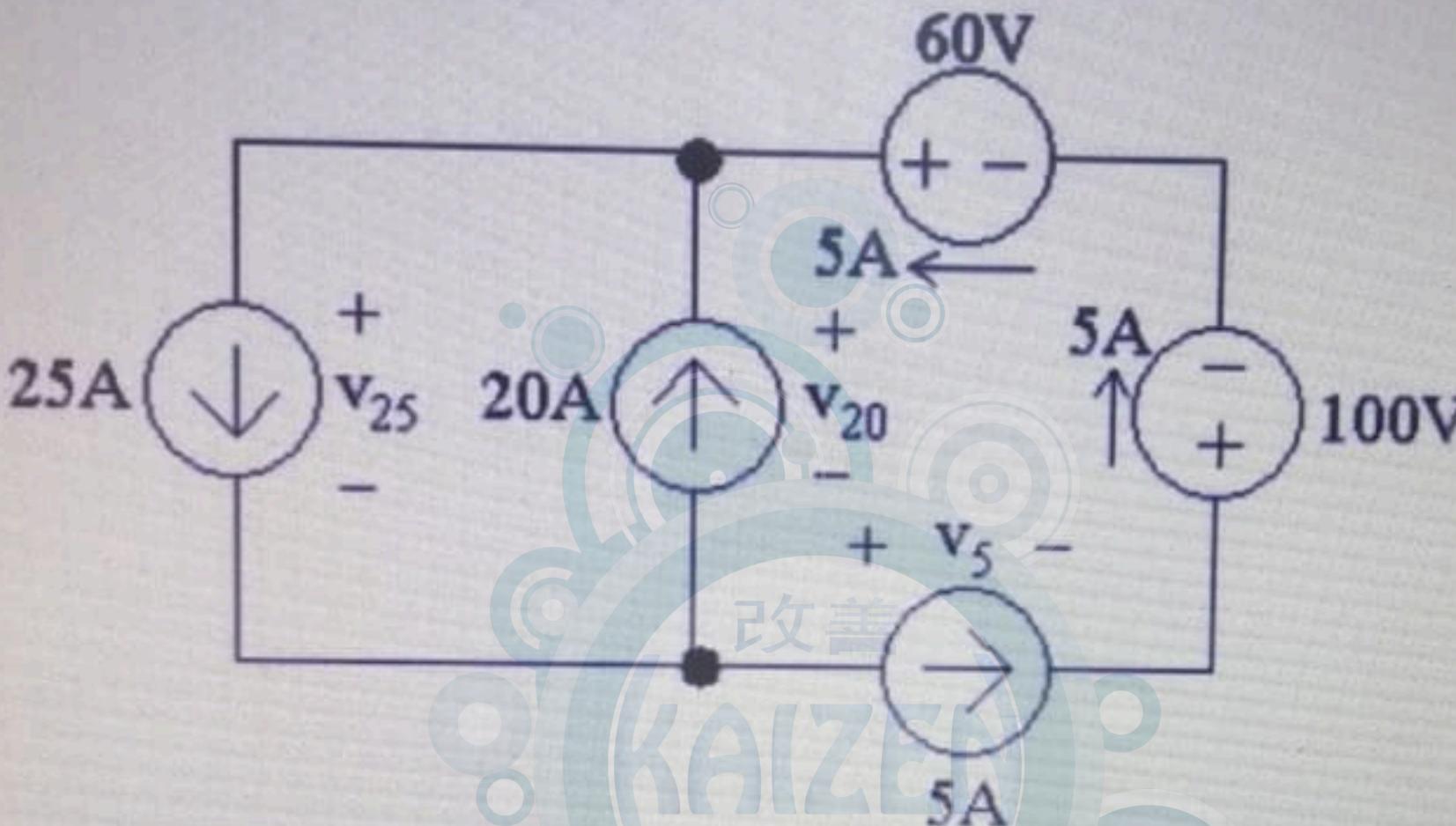
For the circuit shown below, the value of V_o (V) is:



- 10.7
- 2.33
- 7.9
- 13.4

Question 1/5

The values of V_{25} , V_5 , V_{20} are given respectively

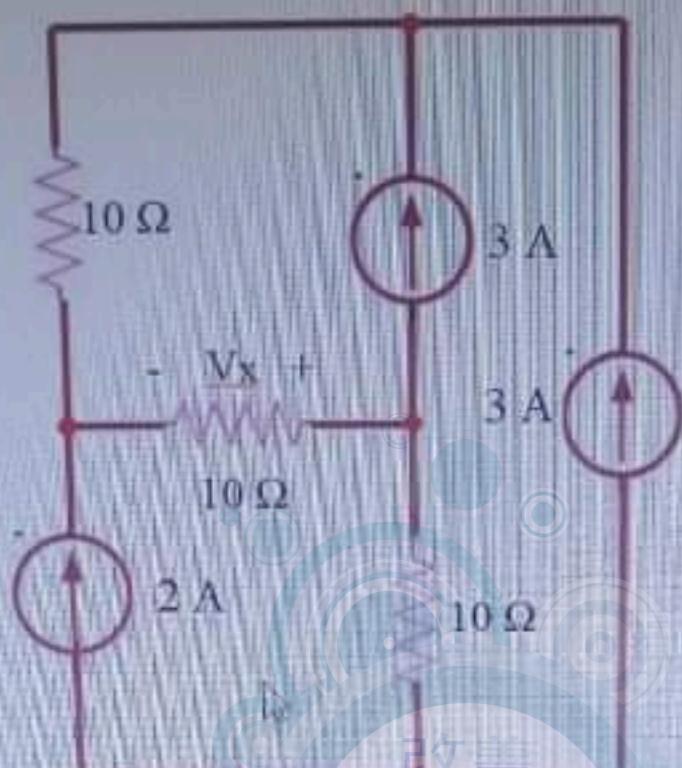


Zoom image

- 200,100,100
- 50,25,-25
- 200,10,100
- 100, 50,50
- 300,150,-160

Question 3/5

For the circuit shown below, the value of V_x (V) is:

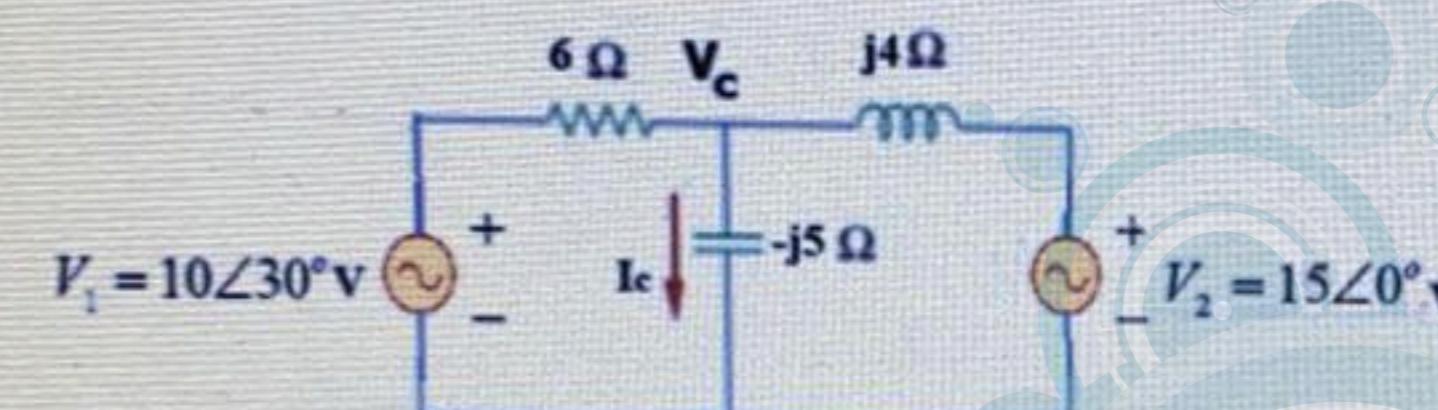


- 50
- 60
- 70
- 80
- 50

SUBMIT ANSWER

Question 4/5 Answer is mandatory

Find $I_c(A)$ and $V_c(V)$ respectively, for the circuit shown



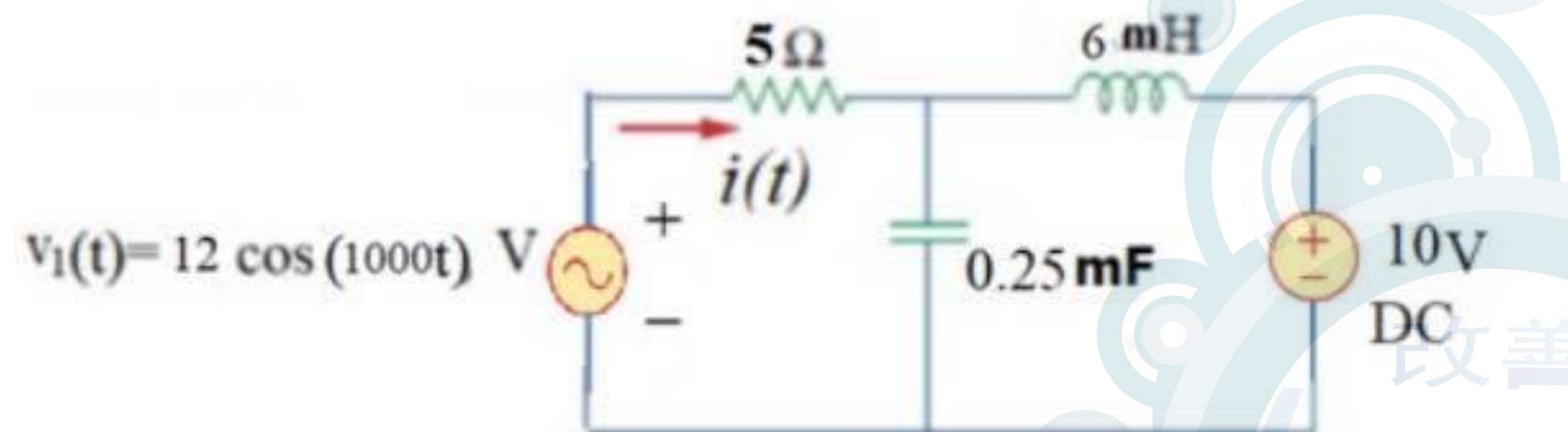
- $I_c = 2.7343 + j2.5523, V_c = 12.7615 - j13.671$
 - $I_c = 0.9870 + j1.2377, V_c = 7.4262 - j5.9221$
 - $I_c = 1.7737 - j2.6916, V_c = -2.6916 - j1.7737$
 - $I_c = 1.9375 + j1.0677, V_c = 5.3386 - j9.6875$
 - $I_c = 2.0000 + j1.7320, V_c = 8.6600 - j10.0000$

SUBMIT ANSWER



Test name: EE 203 - Quiz 2 - For students

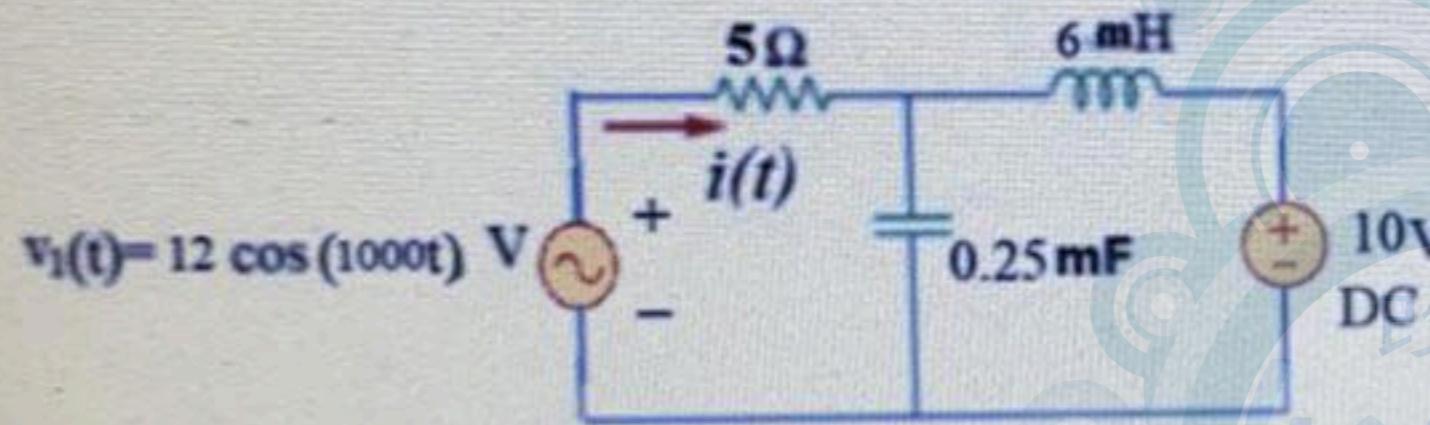
Time left to complete the test: 0 h 22 min. 24 sec.

Question 1/5 Answer is mandatoryWhat is the expression of $i(t)$ in (A) in the circuit shown.

- $0.8944\cos(1000t + 63.4^\circ) - 2$
- $0.9231\cos(1000t + 67.38^\circ) - 2$
- $2.8673\cos(1000t - 17.1^\circ) - 2$
- $1.44\cos(1000t - 53.13^\circ) - 2$
- $0.96\cos(1000t + 53.13^\circ) - 2$

Question 1/5 Answer is mandatory

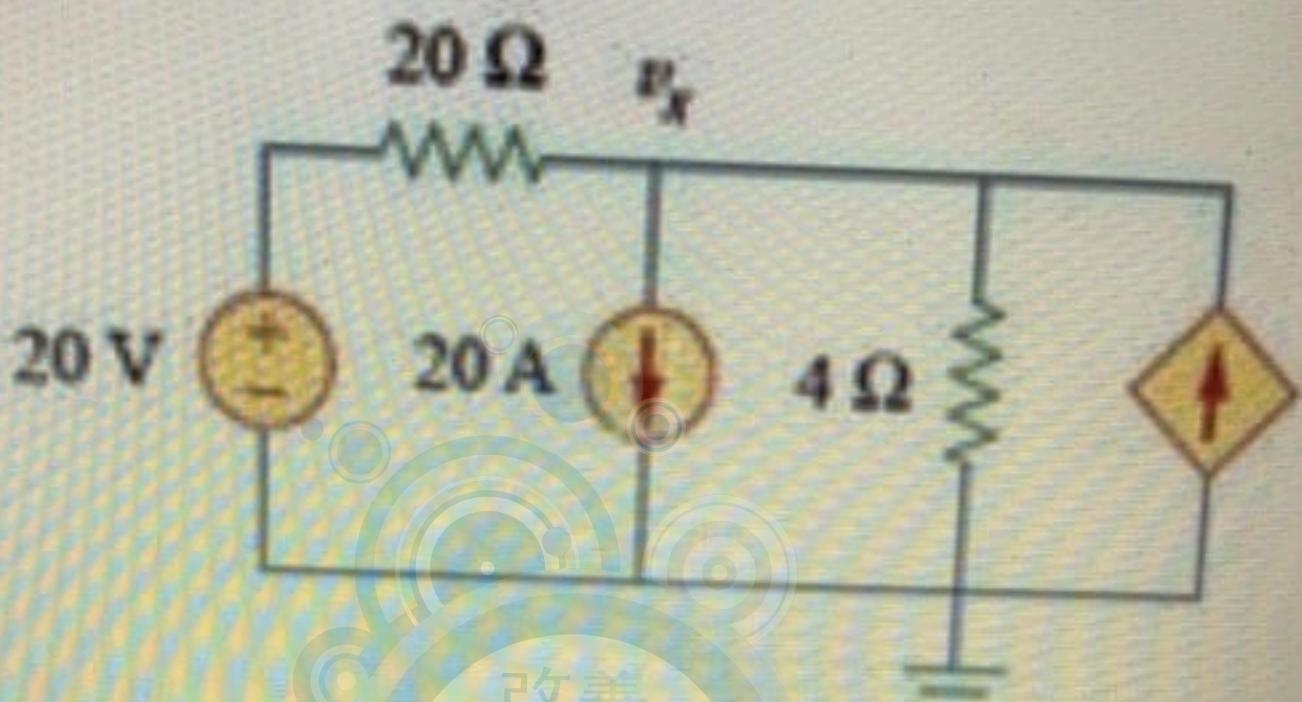
What is the expression of $i(t)$ in (A) in the circuit shown.



- $0.9231\cos(1000t + 67.38^\circ) - 2$
- $2.8673\cos(1000t - 17.1^\circ) - 2$
- $0.8944\cos(1000t + 63.4^\circ) - 2$
- $0.96\cos(1000t + 53.13^\circ) - 2$
- $1.44\cos(1000t - 53.13^\circ) - 2$

Question 10/15 Answer is mandatory

Using the superposition principle, the voltage V_x under the eff.



- 100 V
- 100 V
- 5 V
- 5V



In the circuit shown in Figure. 9. the current $I_0 =$

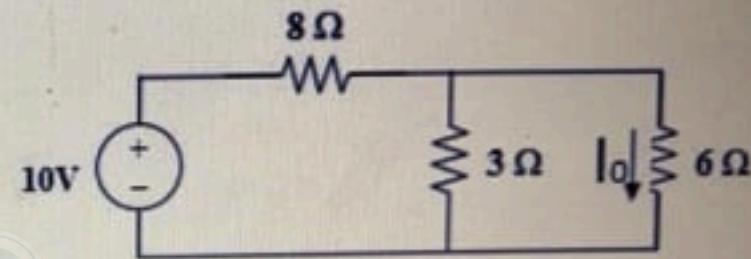


Figure 9:

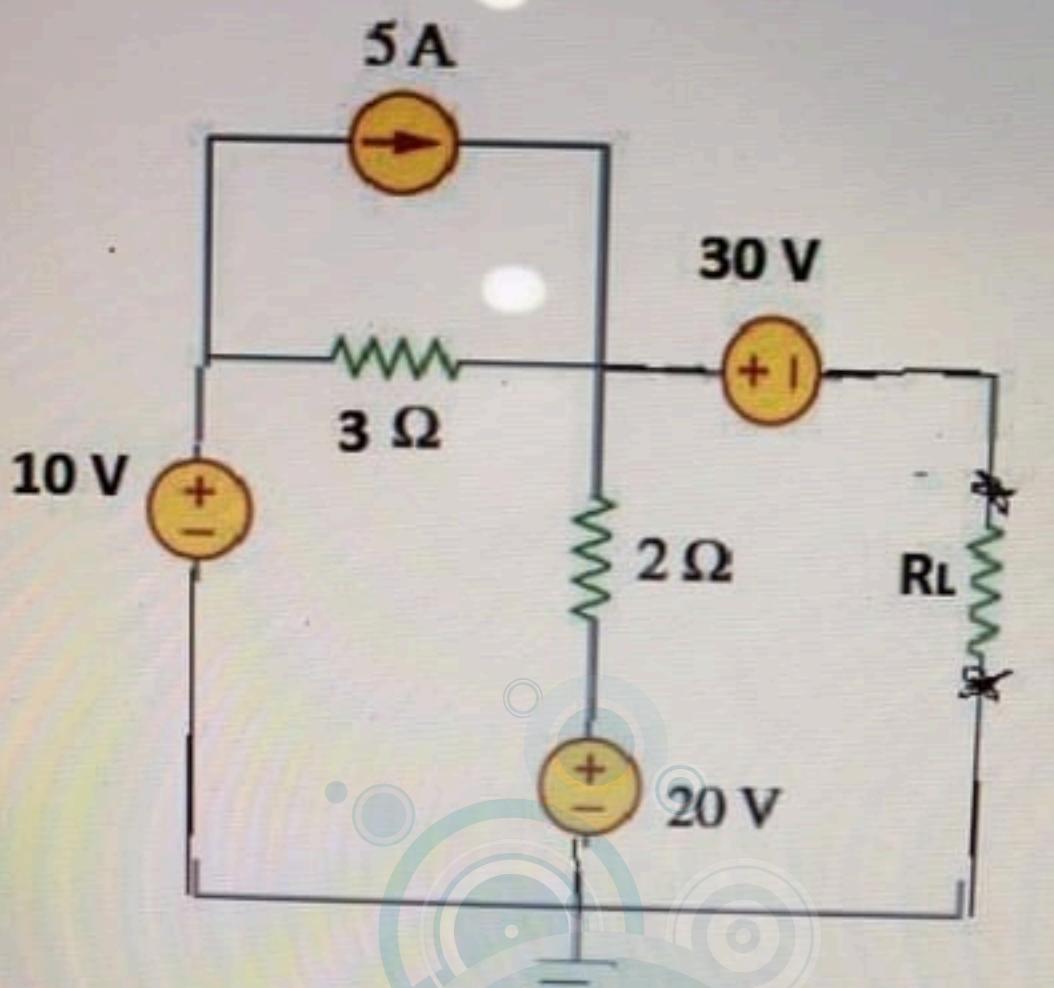
Zoom image

-1.66 A

1.66 A

-1.33A

0.33 A



-8 V

8 V

52 V

-52 V

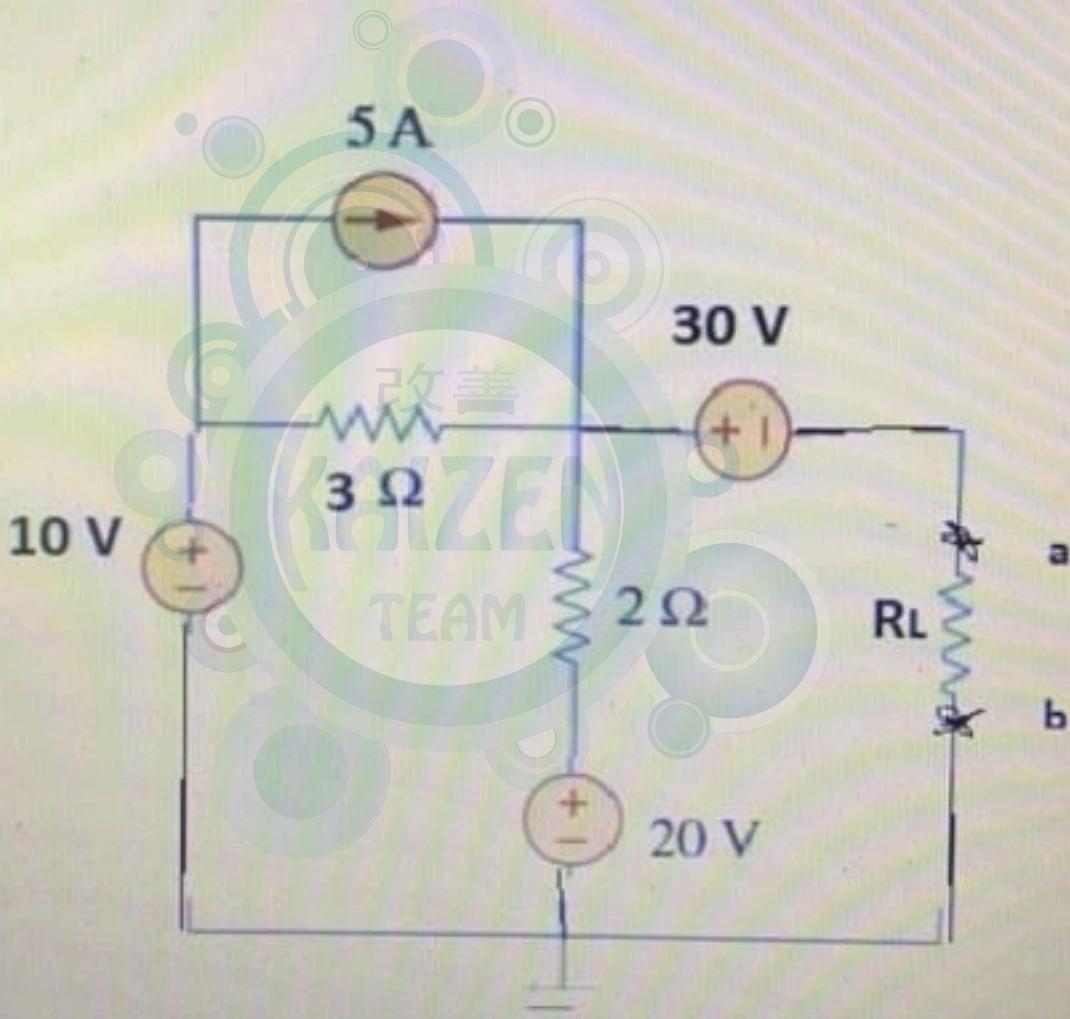
20

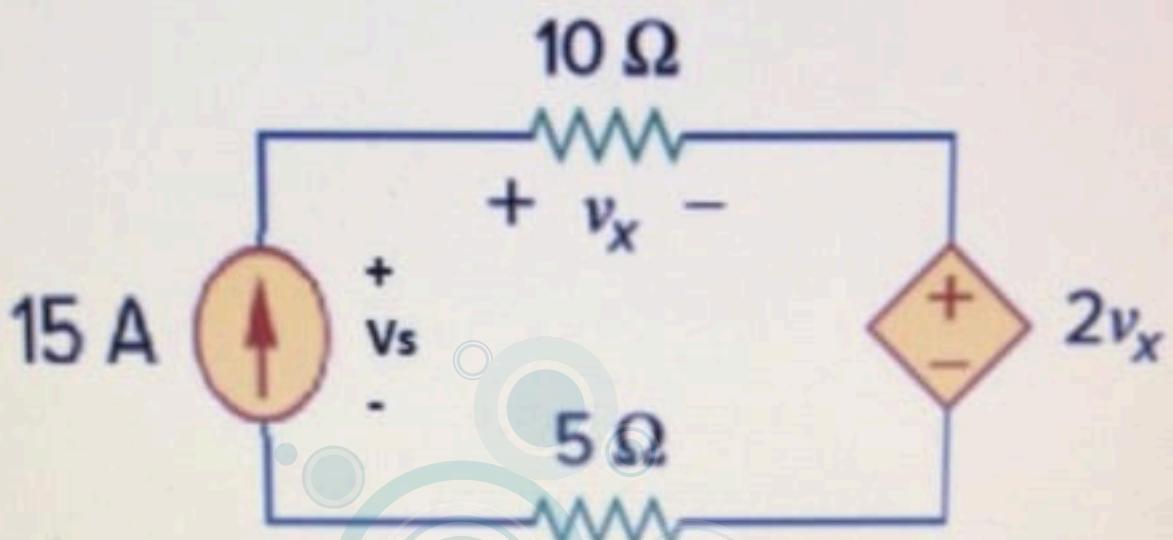


MacBook Air

Question 2/15 Answer is mandatory

V_{th} as seen between a and b is equal to:



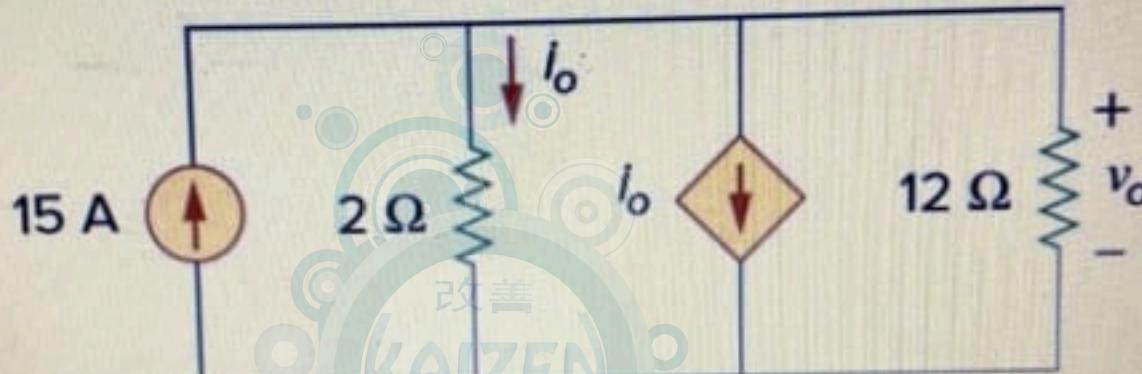


- 15 V
- 525 V
- 150 V
- 525 V
- 150 V



Group - Spring... ***

In the circuit shown i_o is equal to



6.92 A

4.35

-10.3

1.3

- $I_2 - 3I_4 = 0$
- $2I_1 - I_2 + 2I_4 = 0$
- $2I_1 + I_2 - I_3 - 2I_4 = 0$
- $I_1 - I_3 - 2I_4 = 0$
- None of these

SUBMIT ANSWER



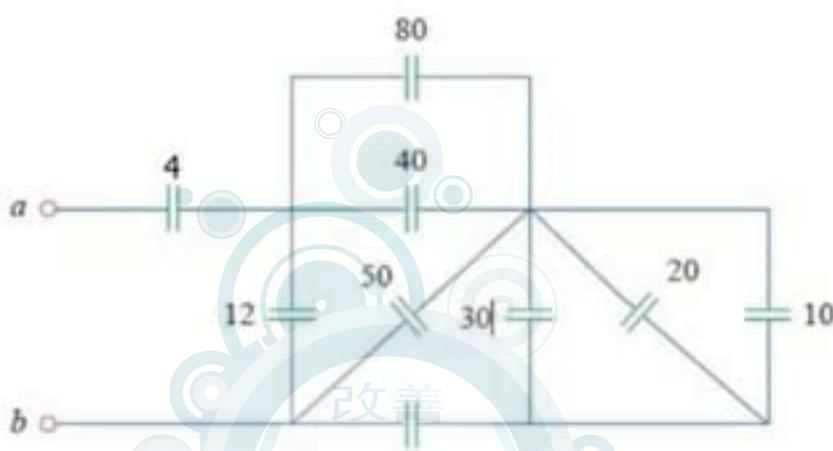
• Test: EE203 Midterm Exam 2ndS...



• EE203 Exams Group - Spring Semester 202...

Question 9/15 Answer is mandatory

Find the equivalent capacitance between terminals a and b in the circuit shown. (All capacitances are in mF)



1.25 mF

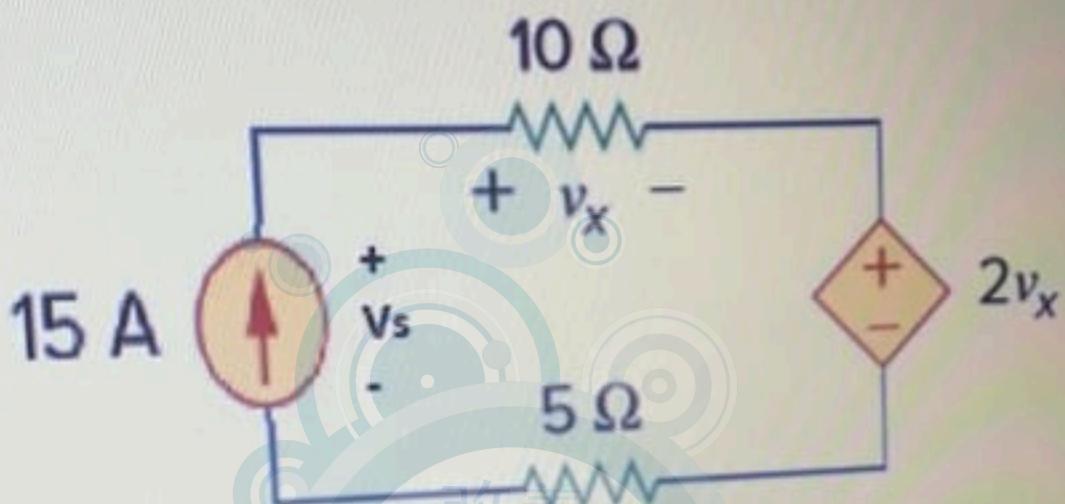
3.75 mF

10 mF

12.5 mF

16 mF

In the circuit shown, V_s equal to



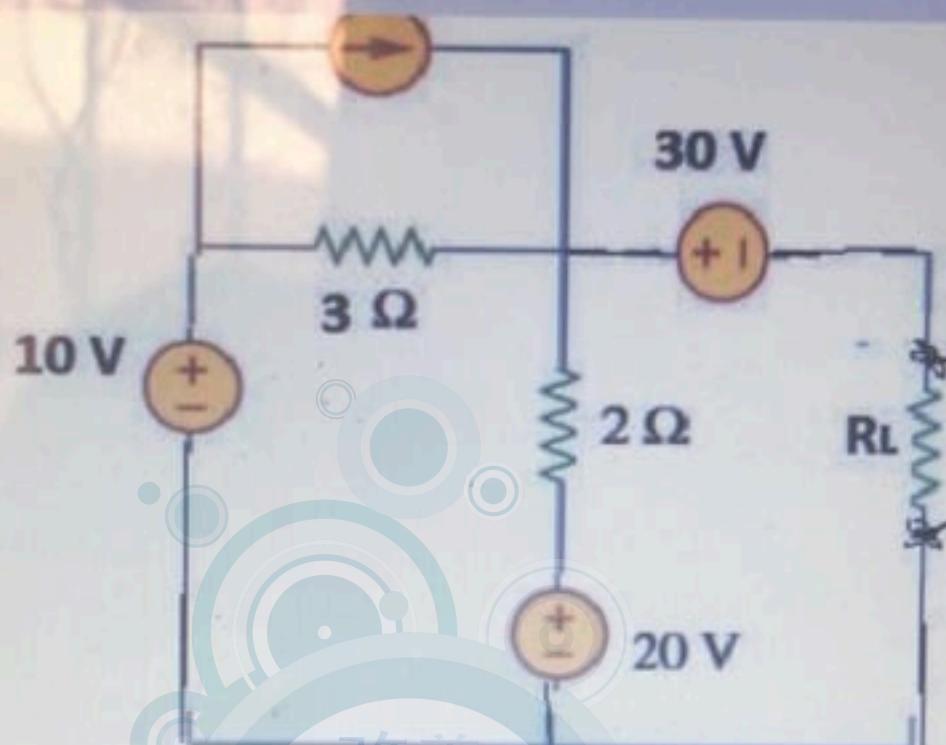
15 V

525 V

150 V

-525 V

DELL



改善

KAIZEN
TEAM

2.2

3.6

1.2

5.1

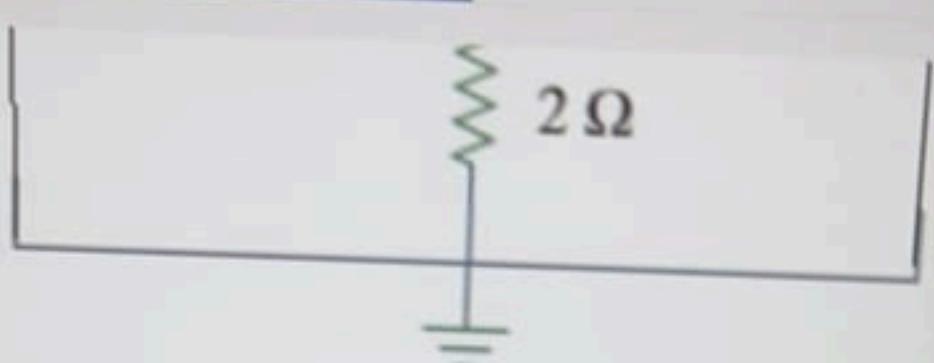
General

Posts Files

Test: EE203 Midterm ...

7 more

New

 6.57 V -6.57 V 2.15 V -2.15 V 10 V**SUBMIT ANSWER**

改善

KAIZEN

TEAM



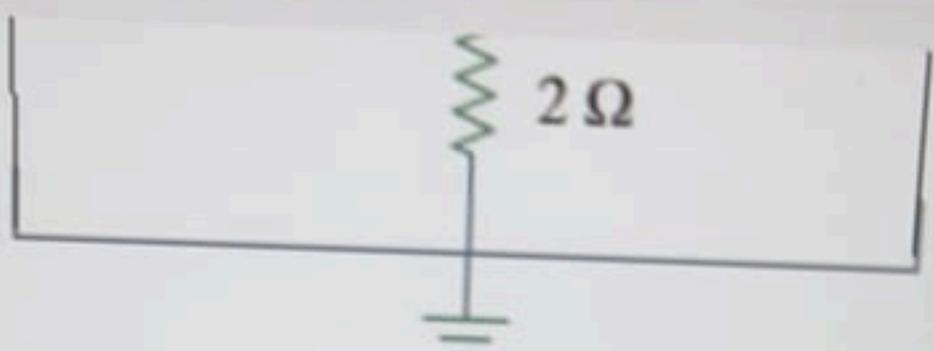
General

Posts Files

Test: EE203 Midterm ...

7 more

New

 6.57 V -6.57 V 2.15 V -2.15 V 10 V

改善

KAIZEN

TEAM



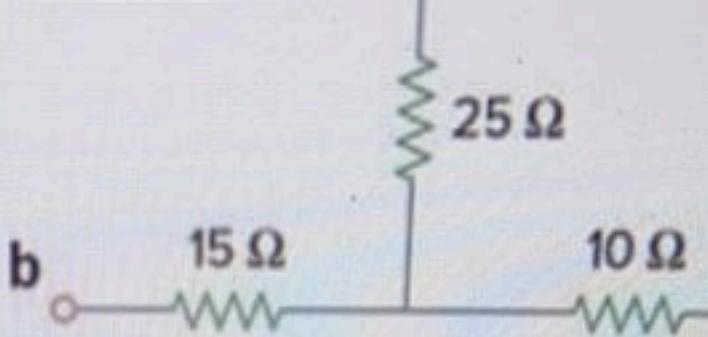


Figure 7:

Zoom image

$22.5\ \Omega$

$32.5\ \Omega$

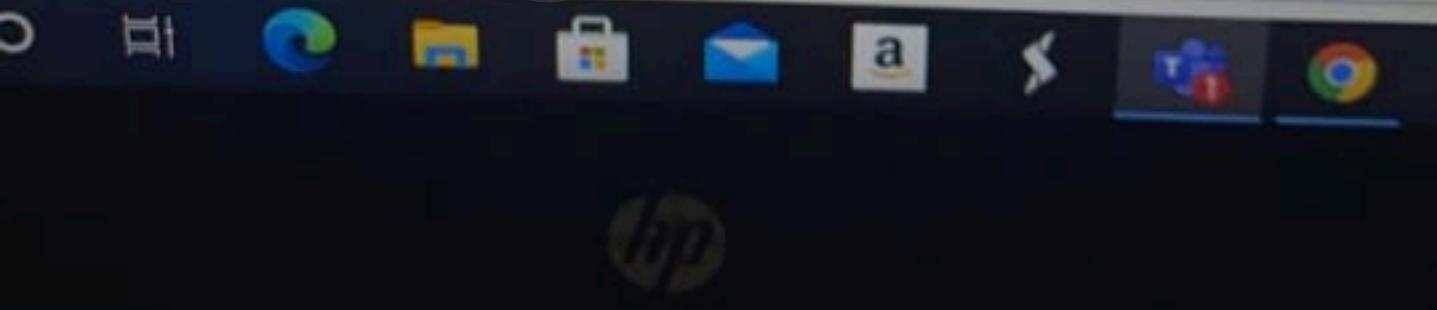
$15\ \Omega$

$41.45\ \Omega$

$16.3\ \Omega$

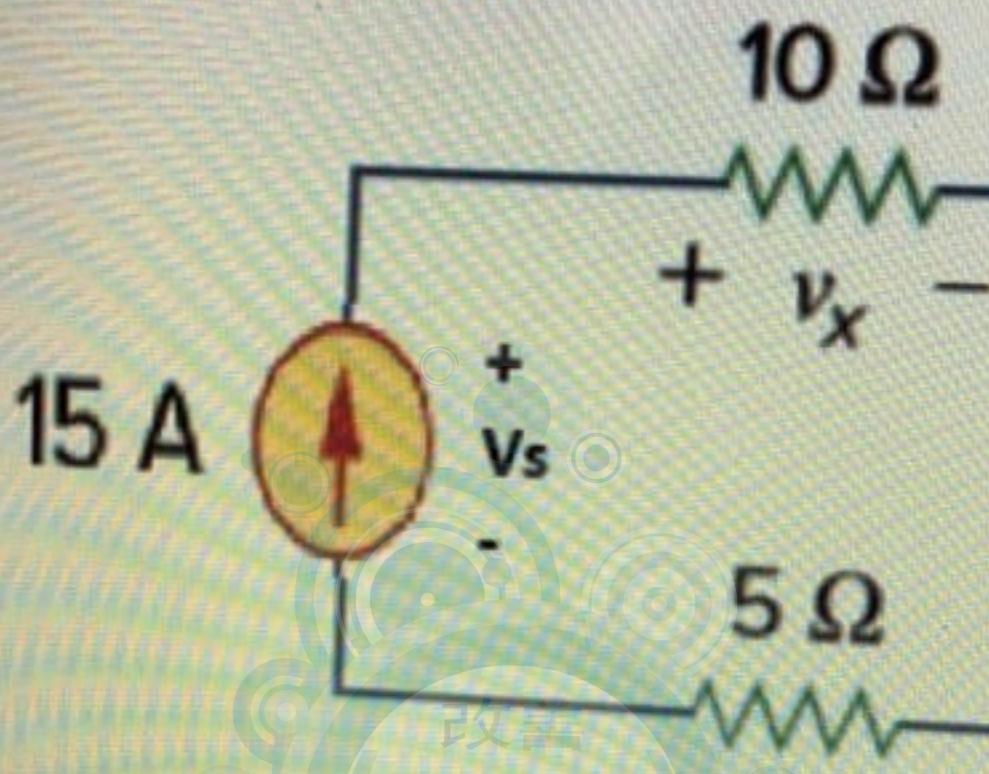
SUBMIT ANSWER

Submit answer



Question 4/15 Answer is mandatory

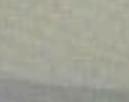
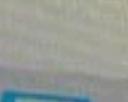
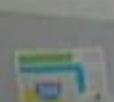
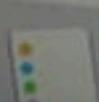
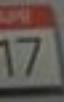
In the circuit shown, V_s equal to



15 V

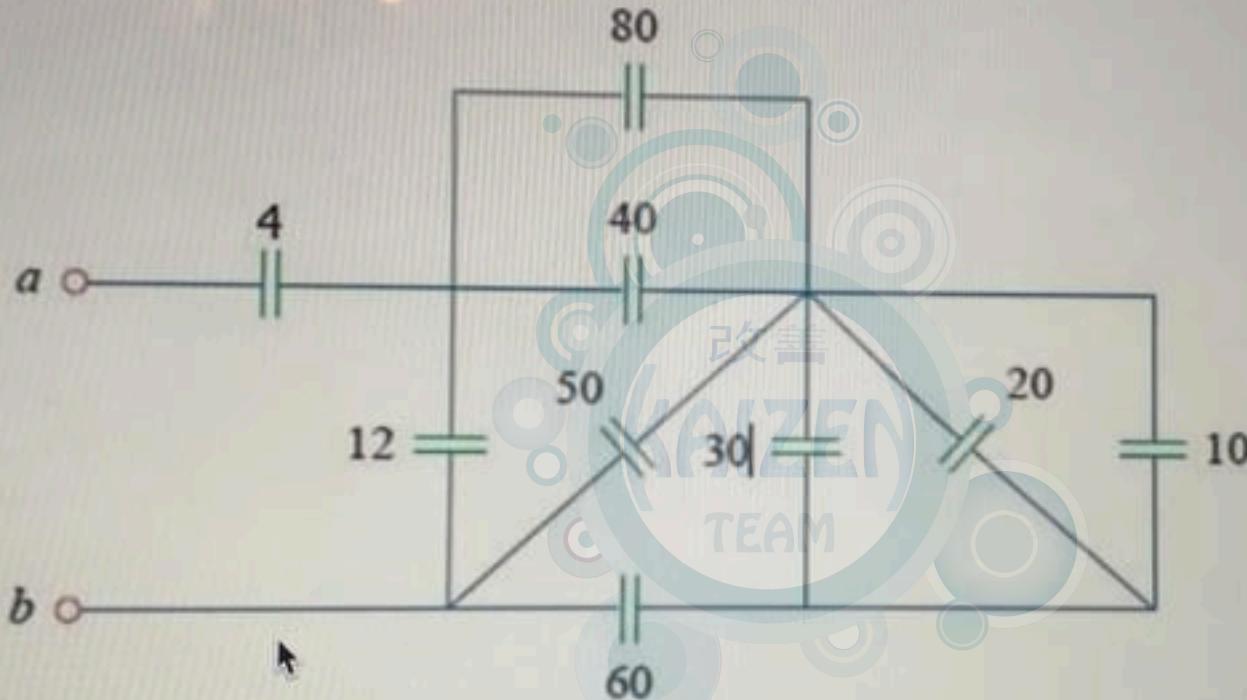
525 V

150 V



Question 9/15 Answer is mandatory

Find the equivalent capacitance between terminals a and b in the circuit shown. (All capacitances are in mF)



1.25 mF

3.75 mF

Question 3/15 Answer is mandatory

In Figure. 4. the power delivered / absorbed by the dependent source is equal to

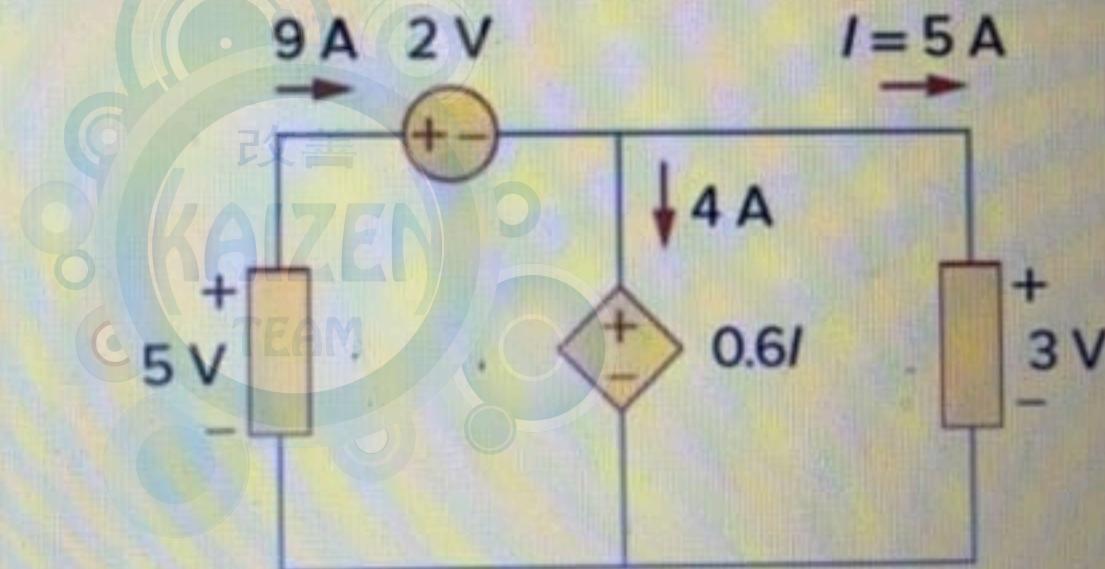
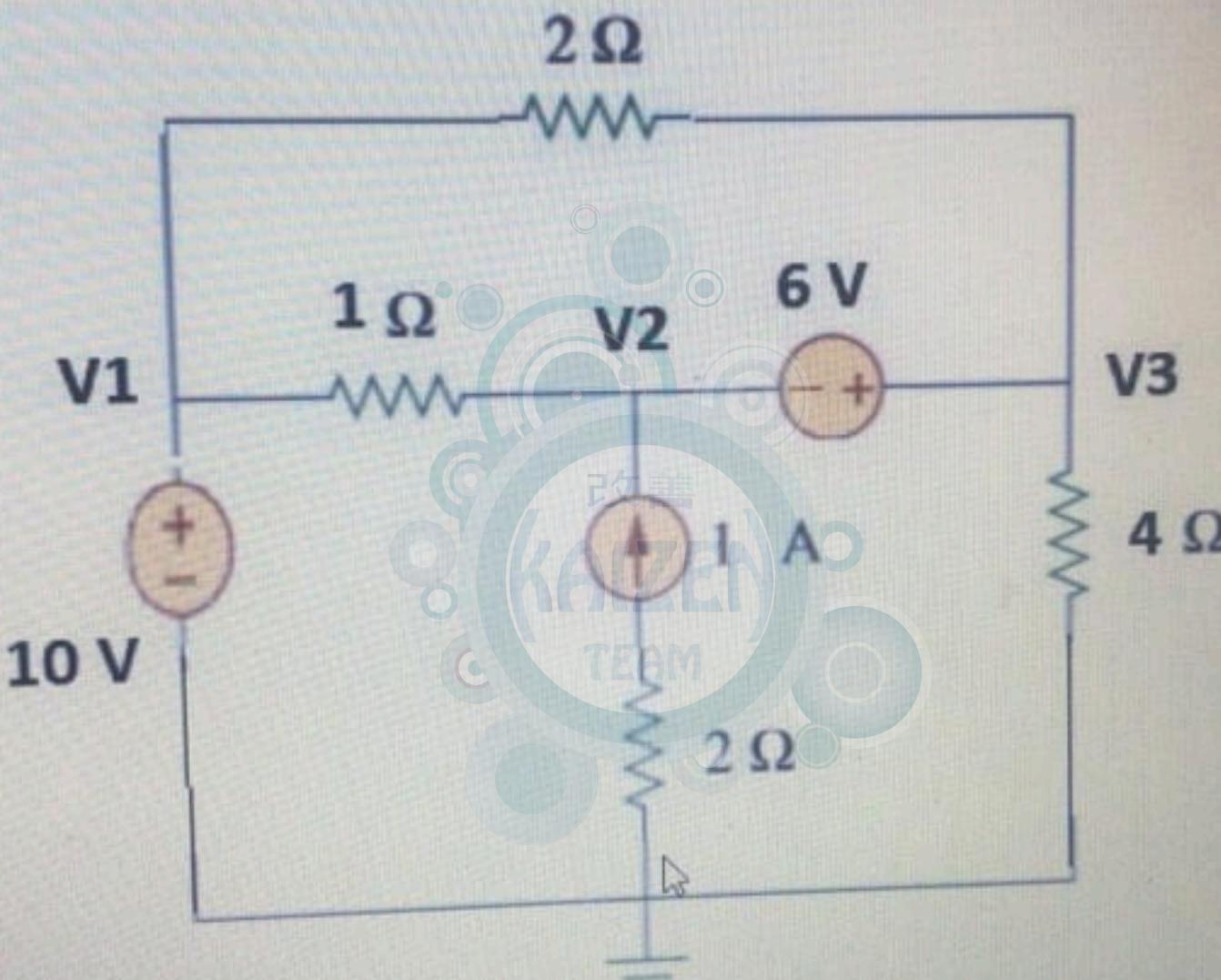


Figure 4:



6.57 V

In Figure. 4. the power delivered / absorbed by the dependent source is equal to

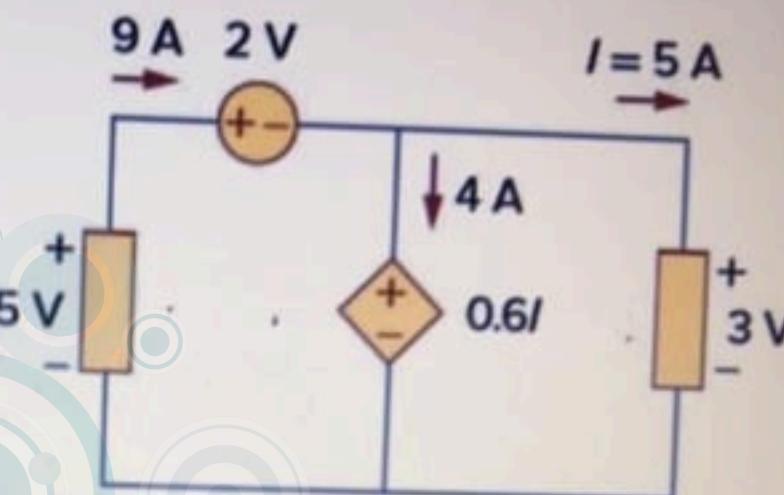
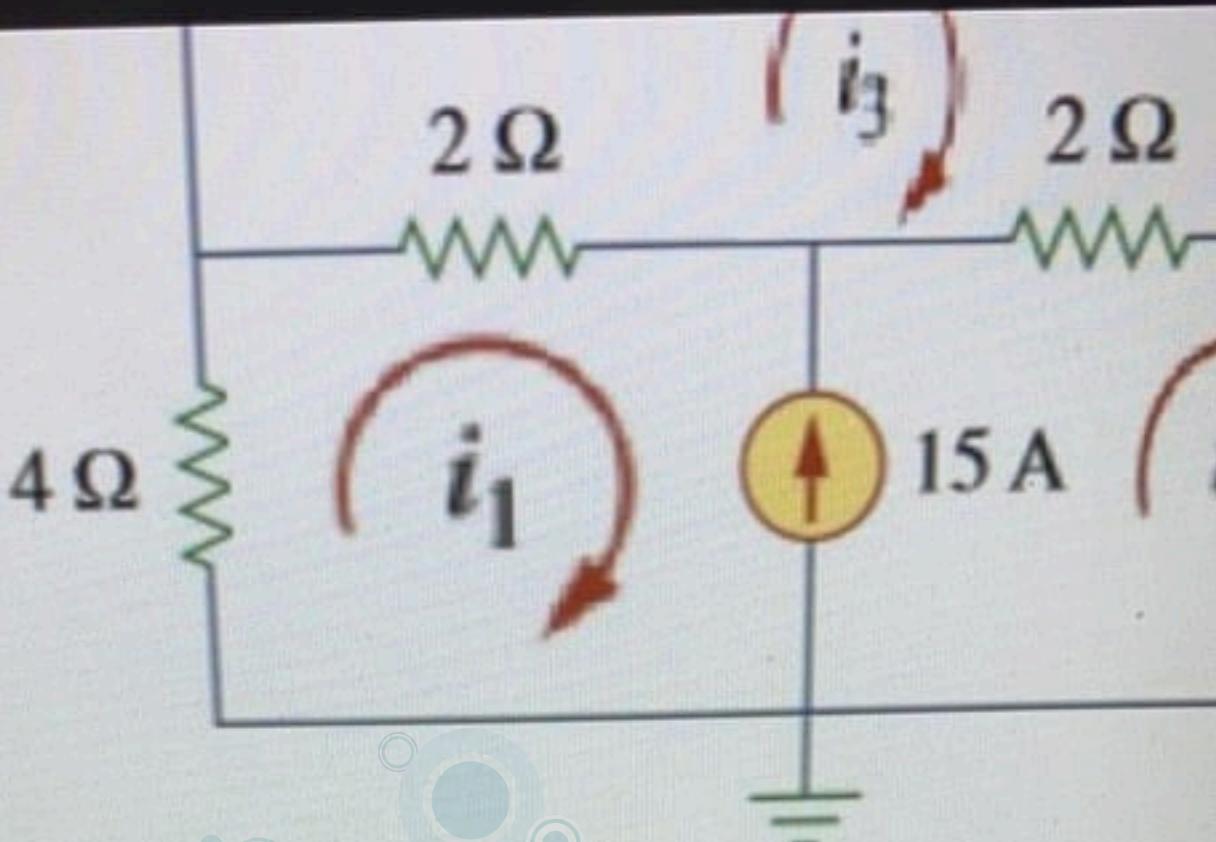


Figure 4:

- Zoom image
- 8 Watt absorbed
- 10 Watt absorbed
- 10 Watt delivered
- 12 Watt delivered
- 12 Watt absorbed



0 A

-15 A

15 A

7.5 A

-7.5 A

SUBMIT ANSWER



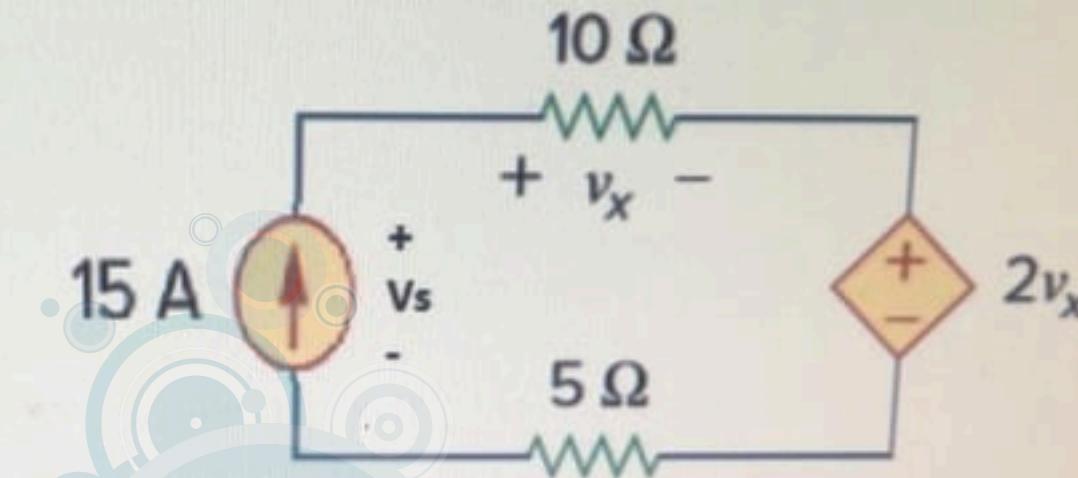
Teams

EE203 Exams Group - S... ...
AssignmentsGeneral
Calendar

Calls

Files

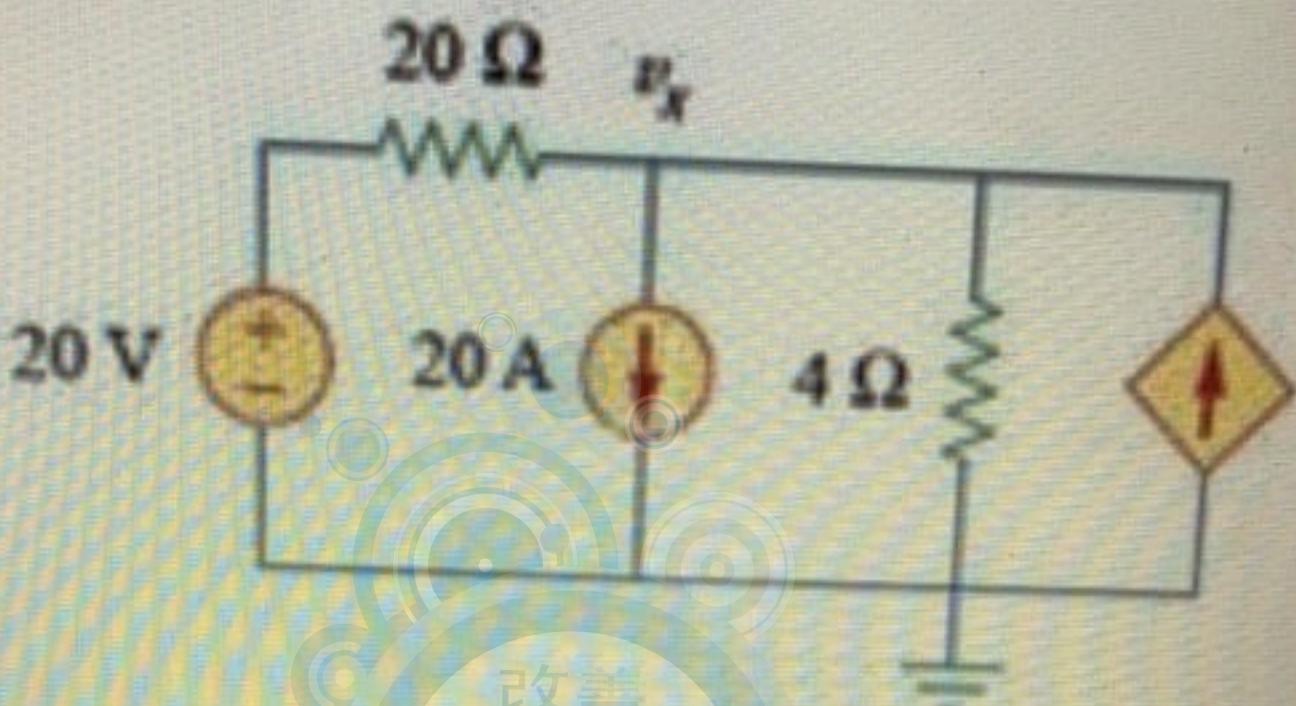
...

In the circuit shown, V_s equal to

SUBMIT ANSWER

Question 10/15 Answer is mandatory

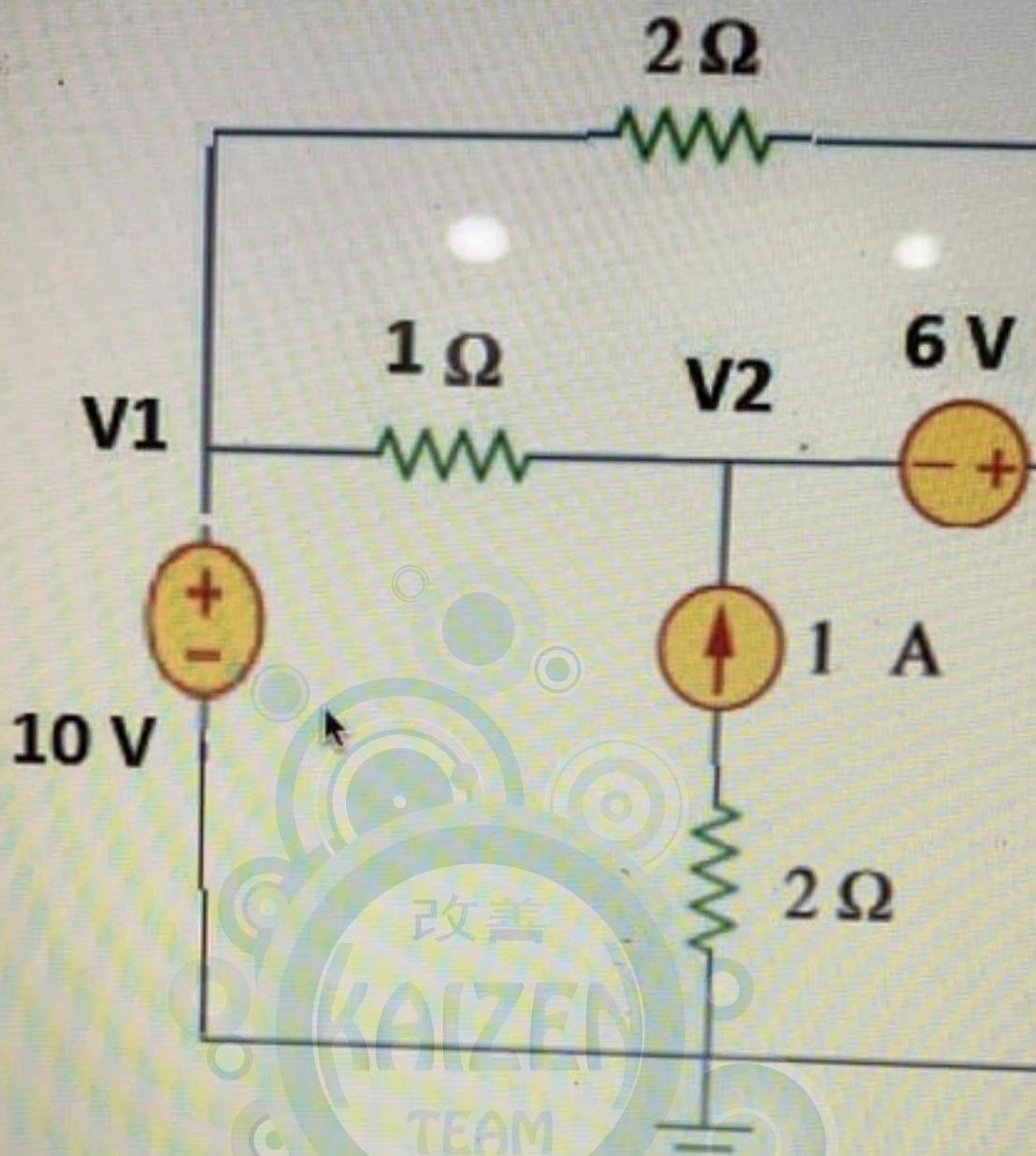
Using the superposition principle, the voltage V_x under the effect of the 20 A current source is:



- 100 V
- 100 V
- 5 V
- 5 V



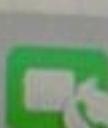
The voltage of node 2 is equal to



6.57 V

-6.57 V

APR
17



MacBook Air



6.57 V

- 6.57 V

2.15 V

-2.15 V

10 V

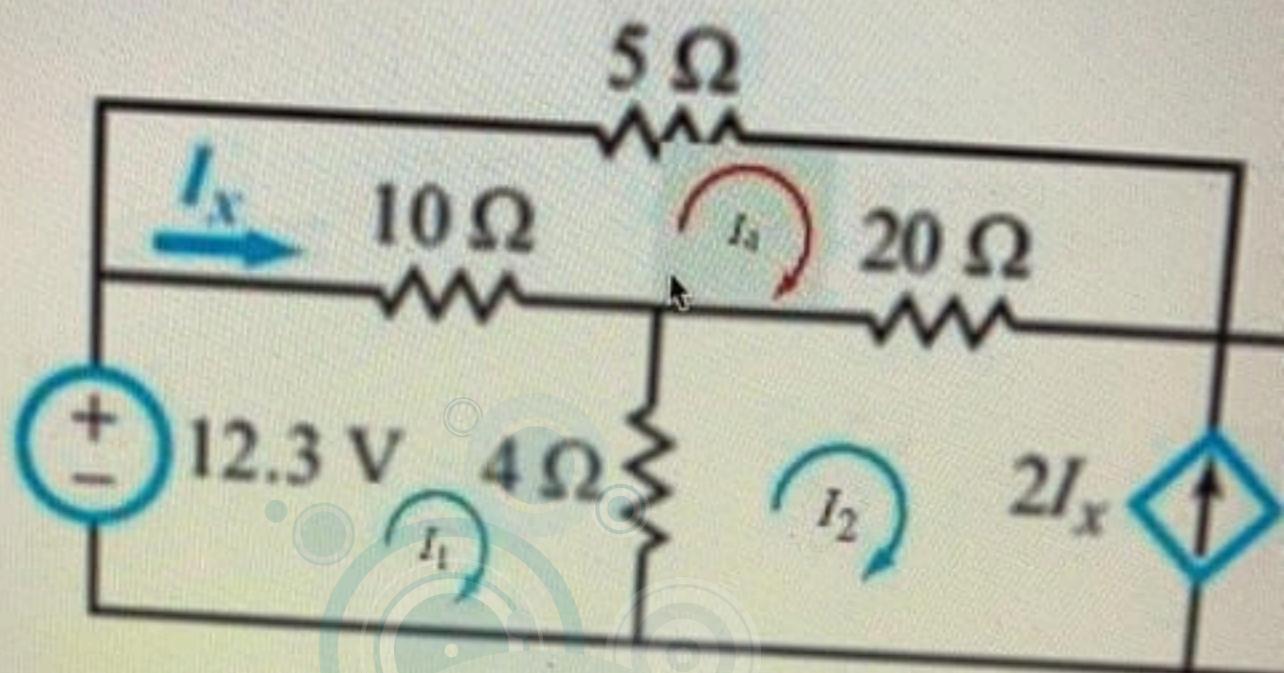
SUBMIT ANSWER



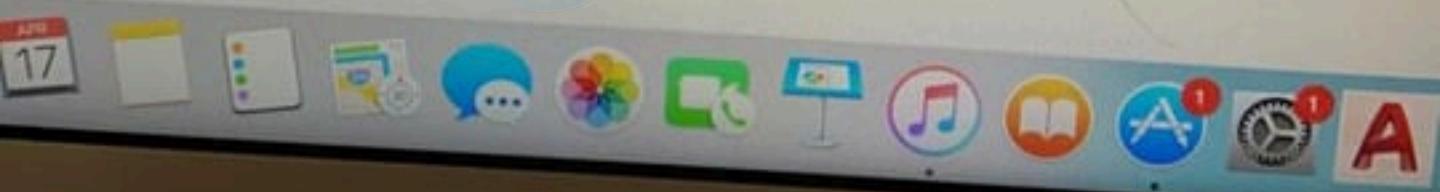
DELL

Question 13/15 Answer is mandatory

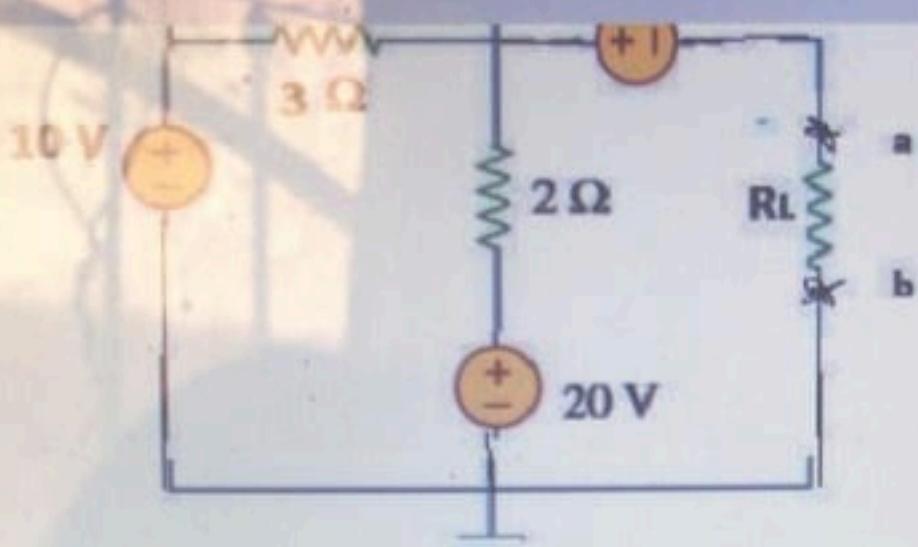
The KCL equation obtained from the supermesh in the circuit shown is:



- $I_2 - 3I_4 = 0$
- $2I_1 - I_2 + 2I_4 = 0$
- $2I_1 + I_2 - I_3 - 2I_4 = 0$



MacBook Air



-8 V

8 V

52 V

52 V

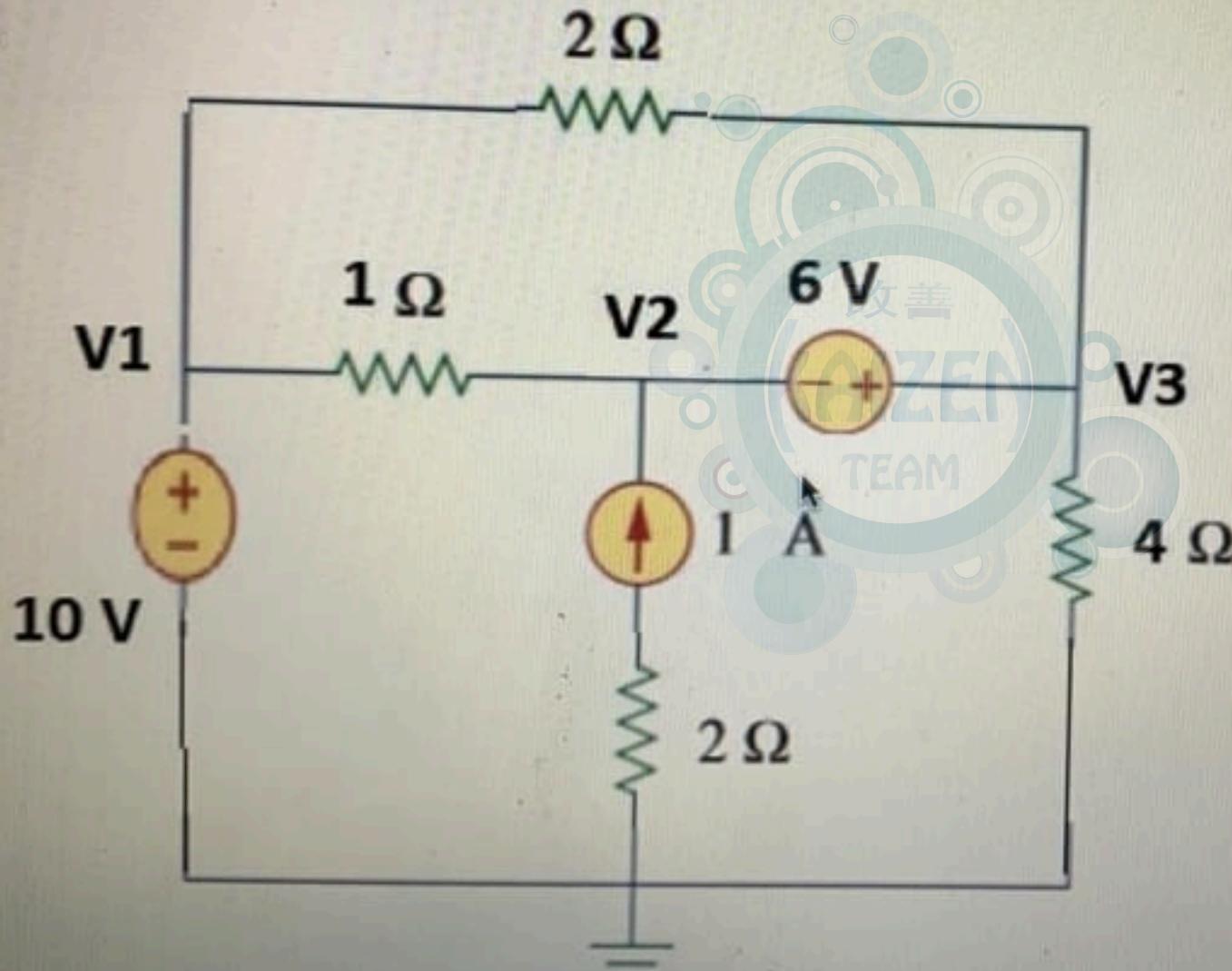
20

SUBMIT ANSWER



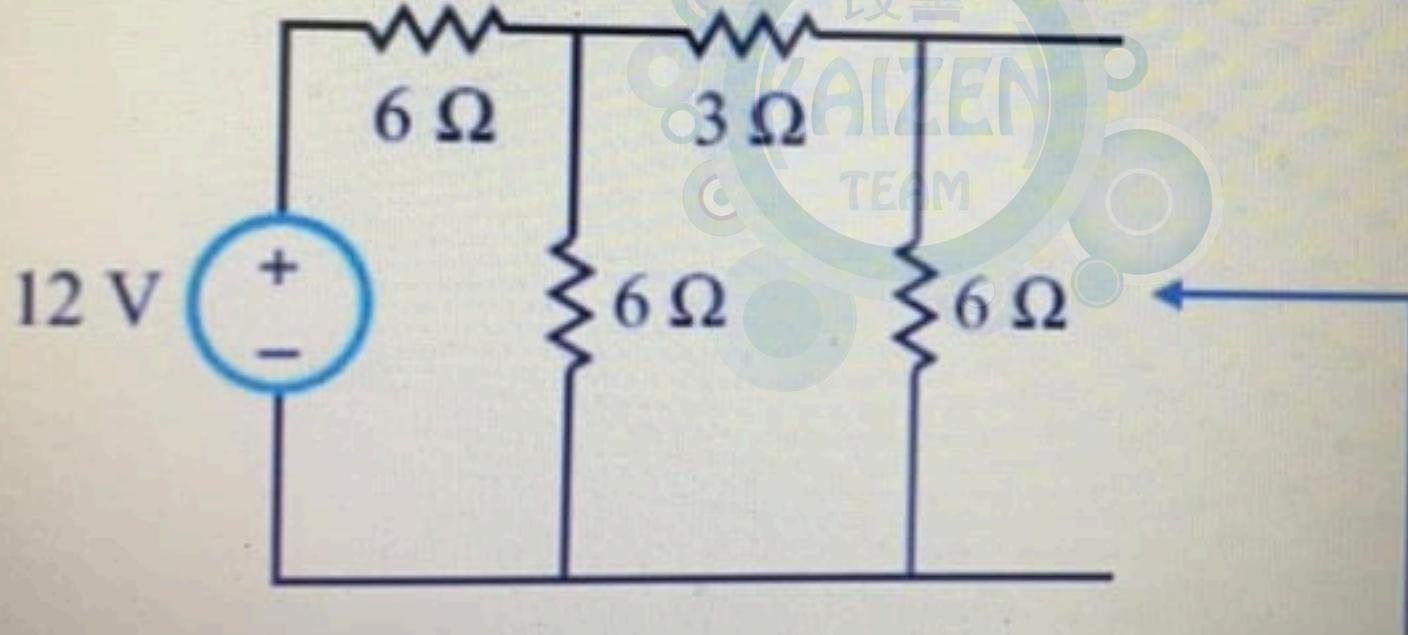
Question 8/15 Answer is mandatory

The voltage of node 2 is equal to



Question 14/15 Answer is mandatory

Using the principle of source transformation, the circuit shown can be simplified into a single voltage source V_z in series with a single resistor R . Find V_z .



Time left to complete the test: 0 h 30 min. 53 sec.

Question 10/15 Answer is mandatory

Using the superposition principle, the voltage V_x under the effect of the 20V voltage source acting alone is:



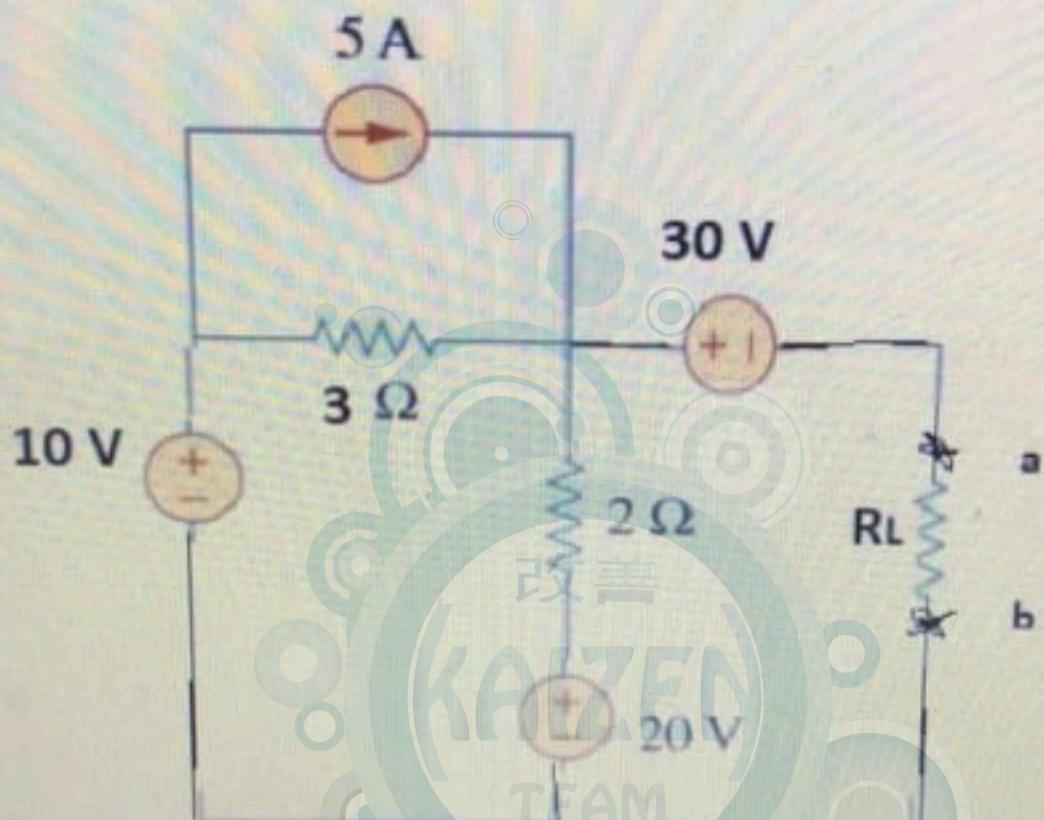
- 100 V
- 100 V
- 5 V
- 5 V
- 95 V

SUBMIT ANSWER



- 100 V
- 100 V
- 5 V
- 5V

V_{th} as seen between a and b is equal to:

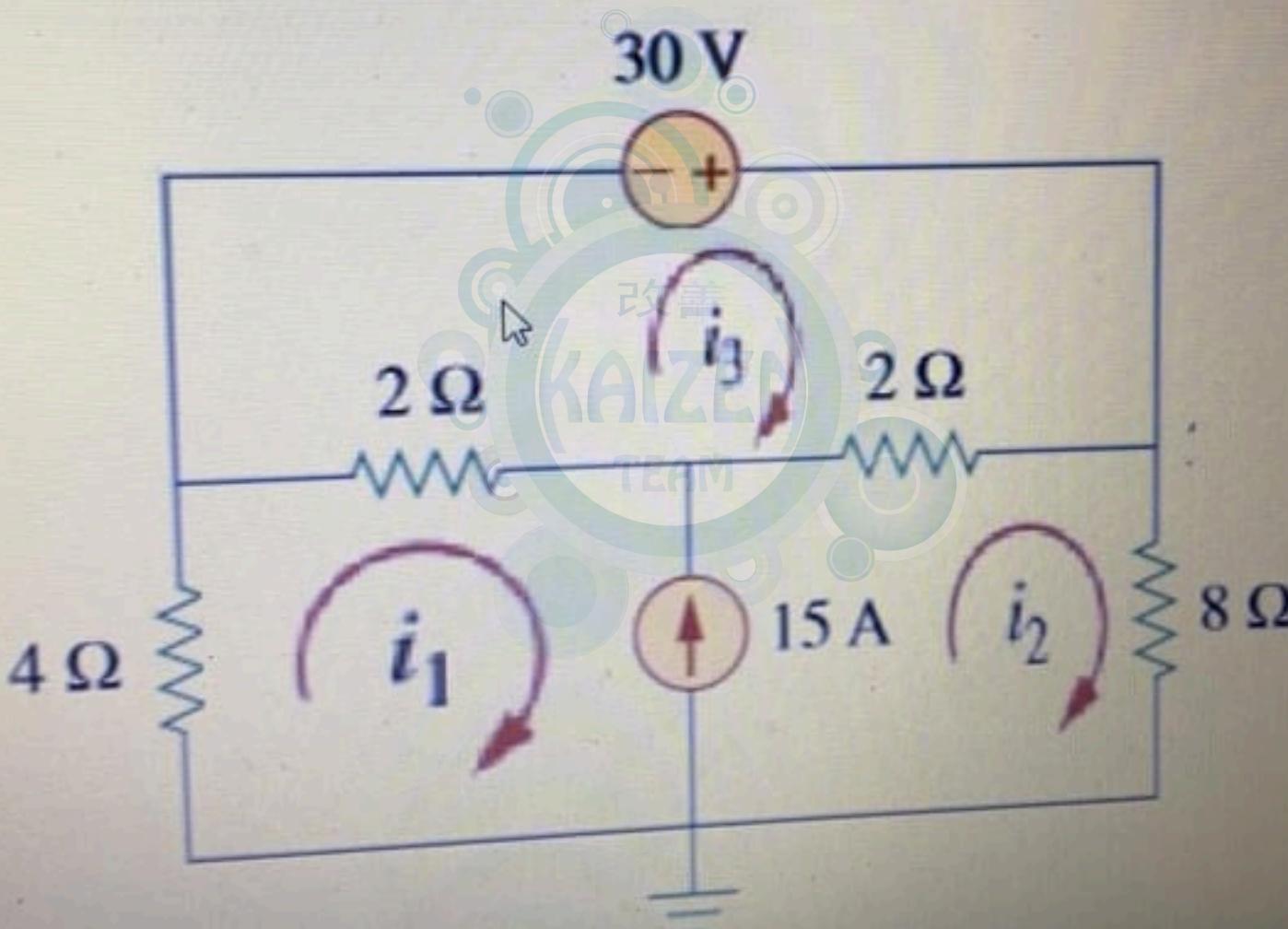


○ -8 V

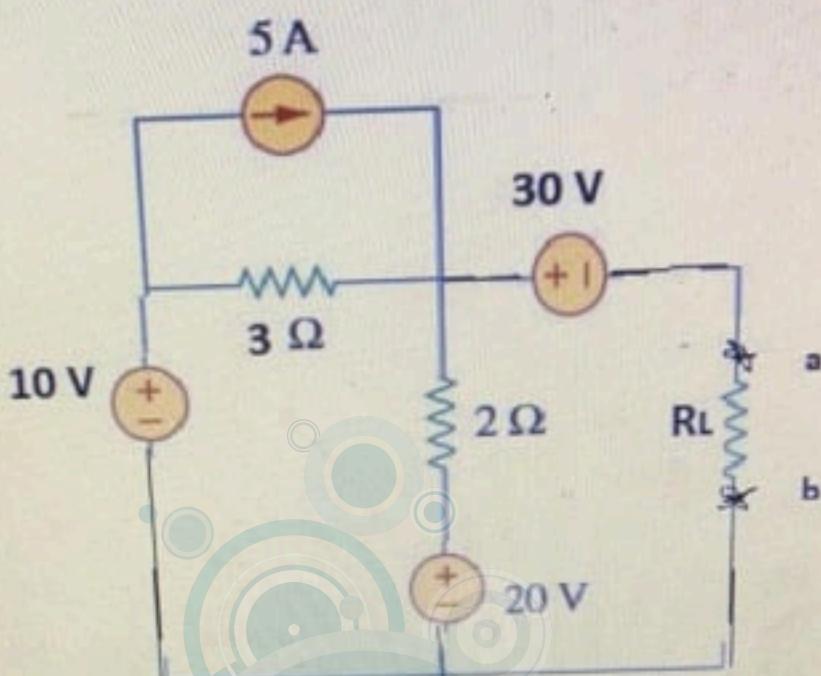
○ 8 V

Question 7/15 Answer is mandatory

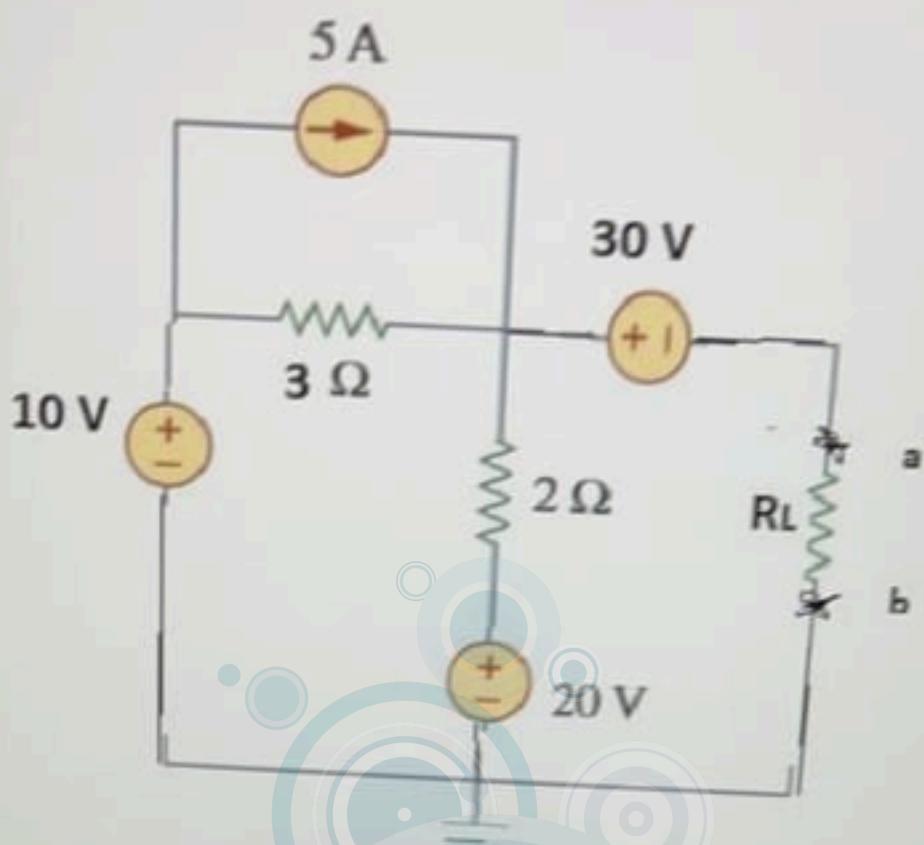
Using mesh analysis, find the current i_1



R_{th} seen between a and b is equal to:



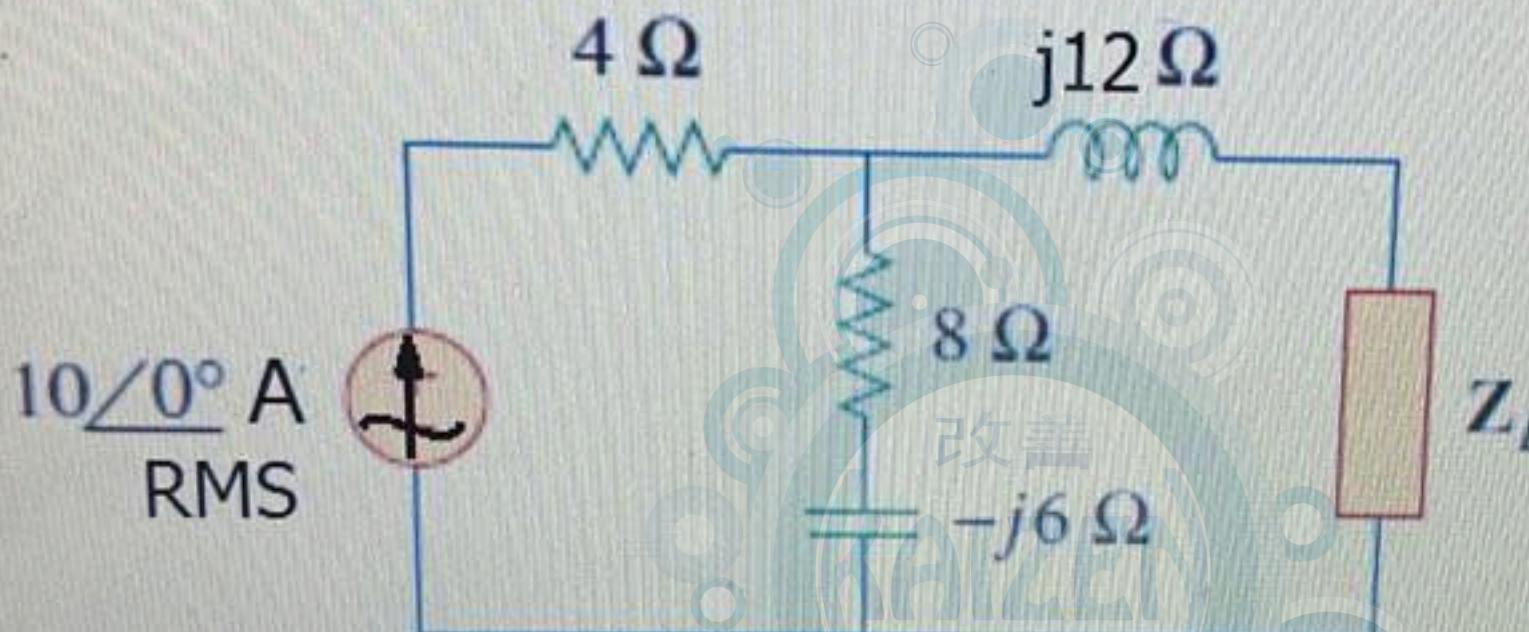
R_{th} seen between a and b is equal to:



改善

KELZEN
hpREAM

The load impedance that maximizes the average power drawn from the circuit, and the maximum average power of Figure shown wqual to ,



$2.93 - j 11.47 \Omega$

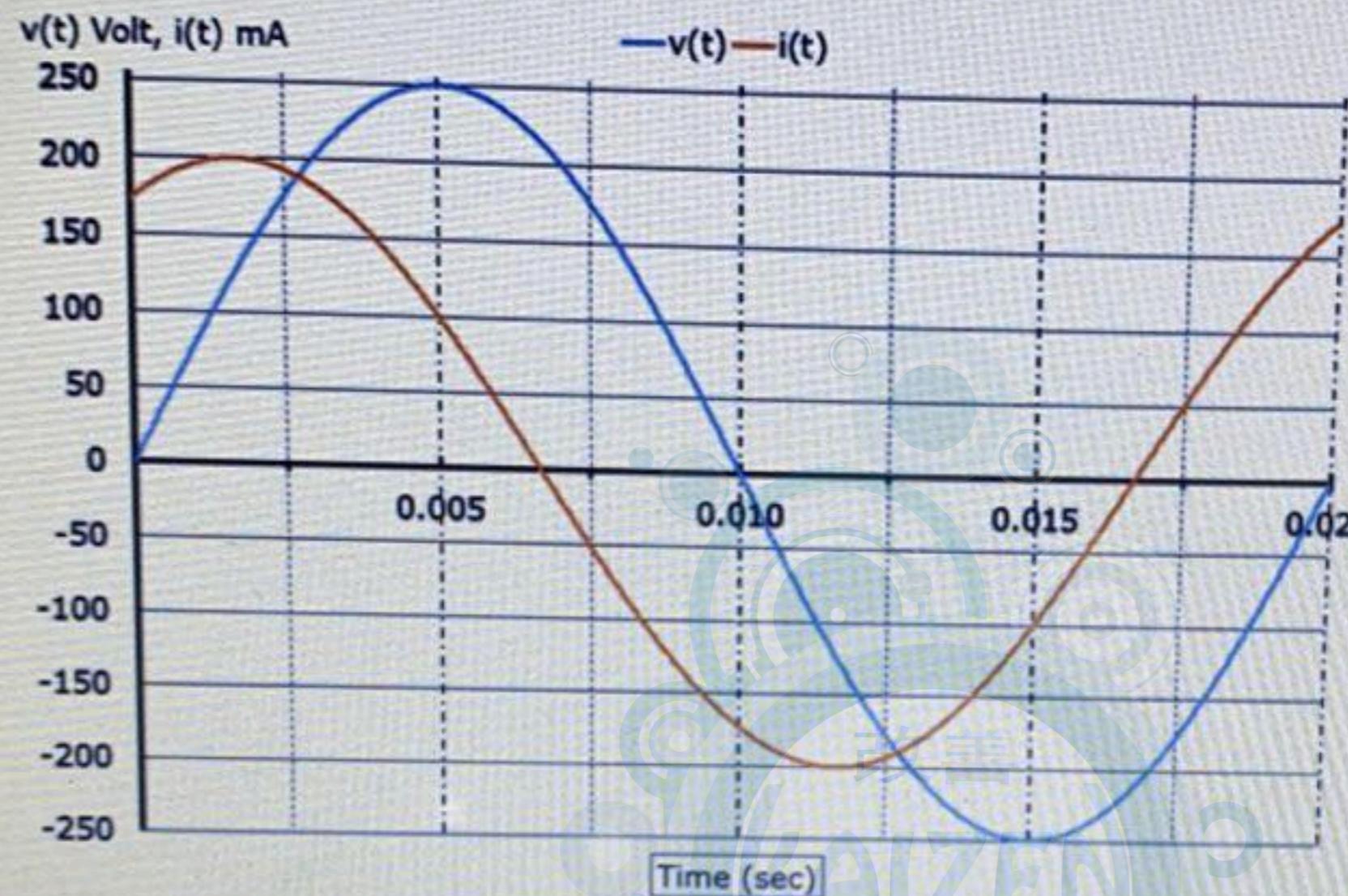
853.24 W

$10\angle 36.87^\circ \Omega$

215.3 W

None of these

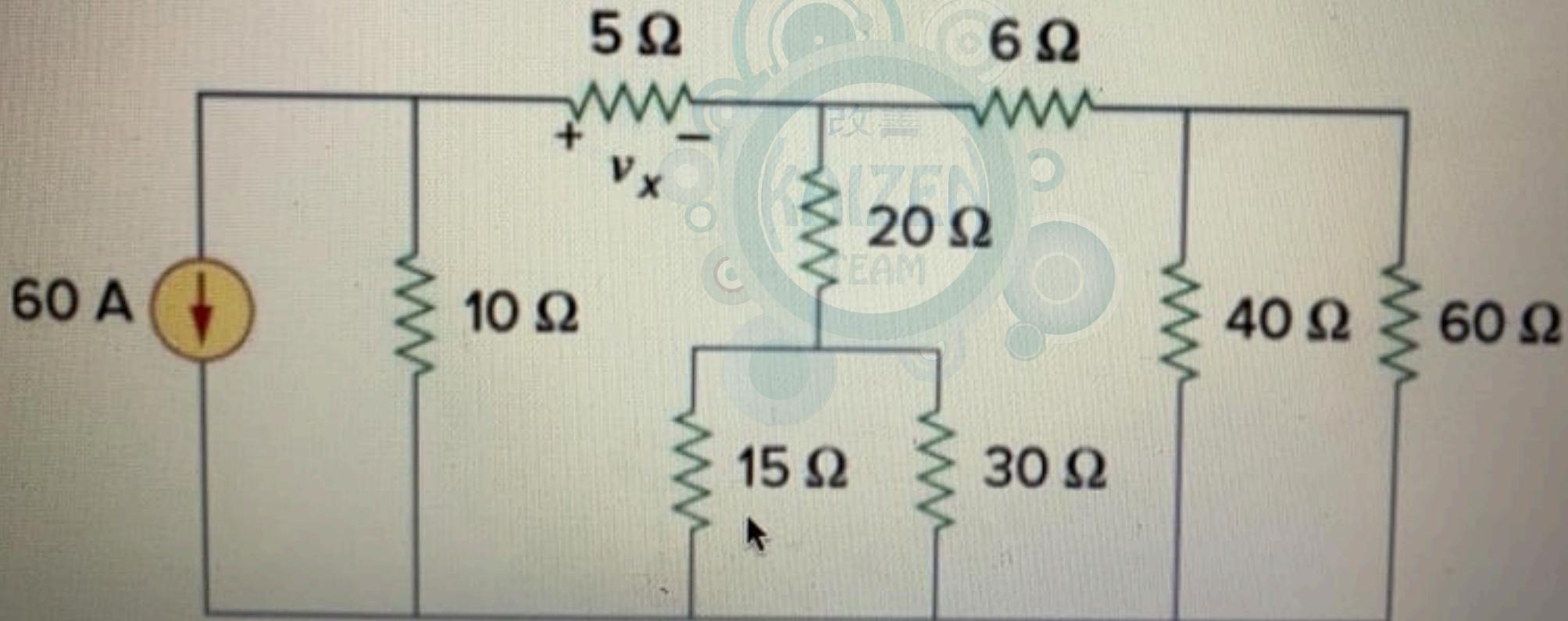
The figure shows $v(t)$ and $i(t)$ across a load. Then, phase shift angle in degrees is:



- 90
- 60
- 90
- 30
- 45
- 45

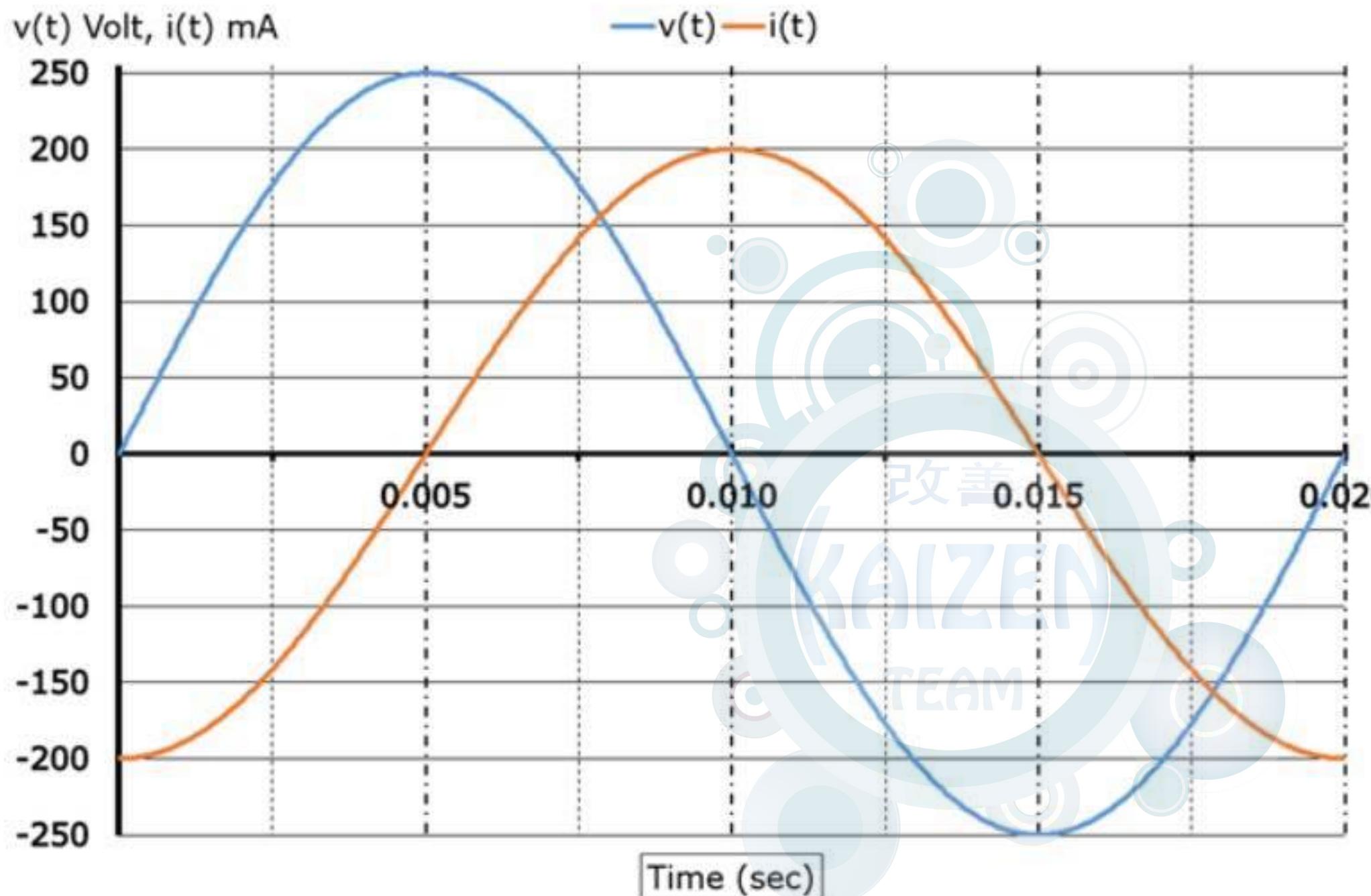
Question 6/15 Answer is mandatory

In the circuit shown find V_x



Question 3/5 Answer is mandatory

The figure shows $v(t)$ and $i(t)$ across a load. Then, phase shift angle in degrees is:



30

-90

20

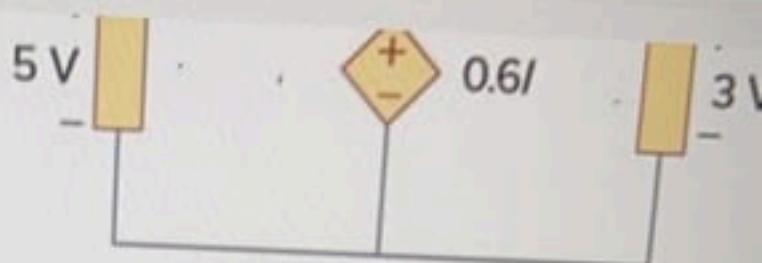
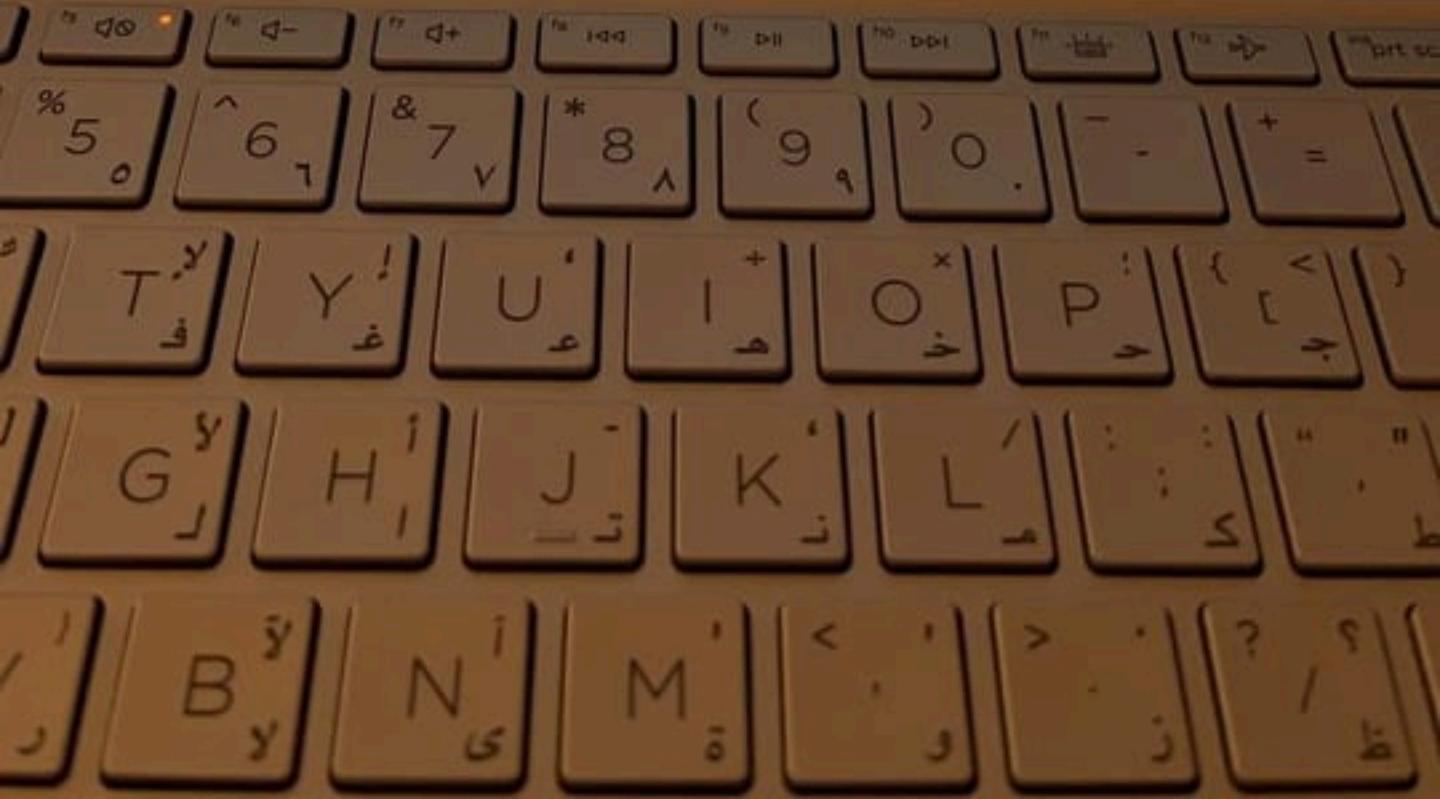


Figure 4:

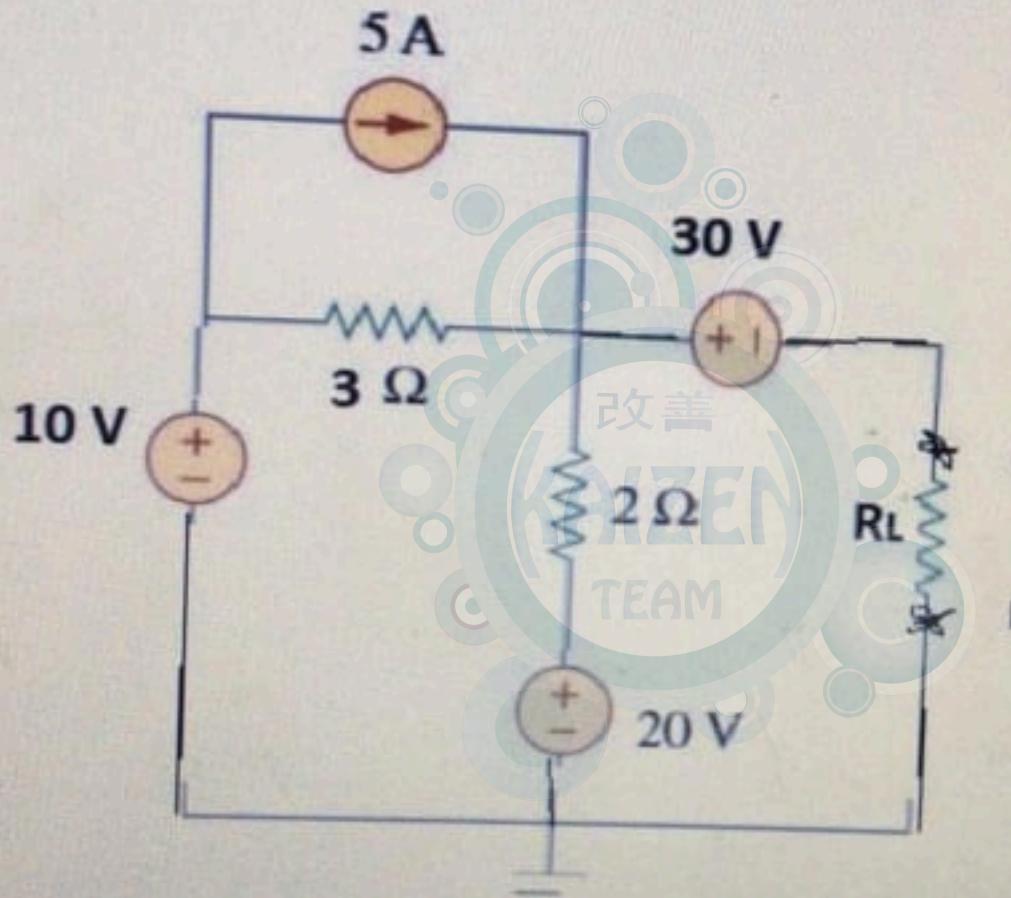
[Zoom image](#)

- 8 Watt absorbed
- 10 Watt absorbed
- 10 Watt delivered
- 12 Watt delivered
- 12 Watt absorbed

[SUBMIT ANSWER](#)

up - Spring... ...

R_{th} seen between *a* and *b* is equal to:



Question 3/15 Answer is mandatory

In Figure. 4. the power delivered / absorbed by the dependent source is equal to

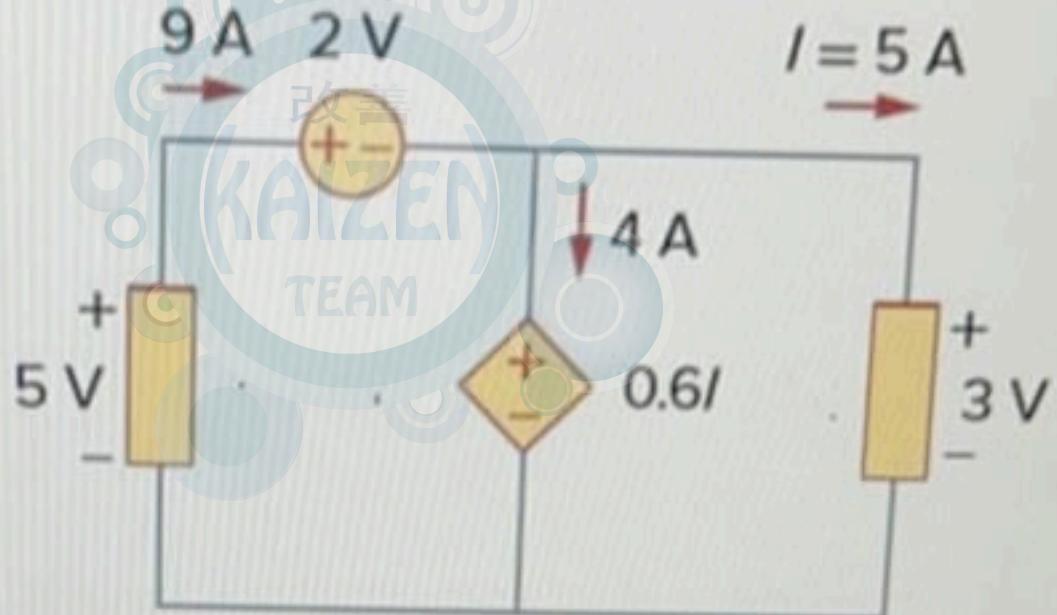
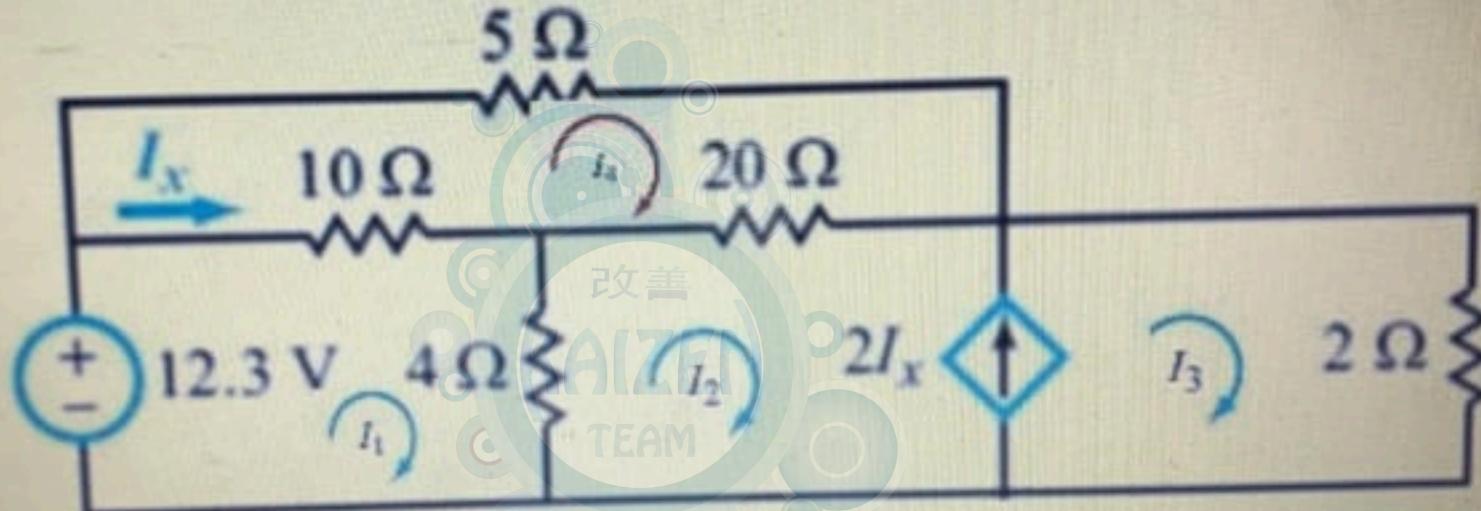


Figure 4:

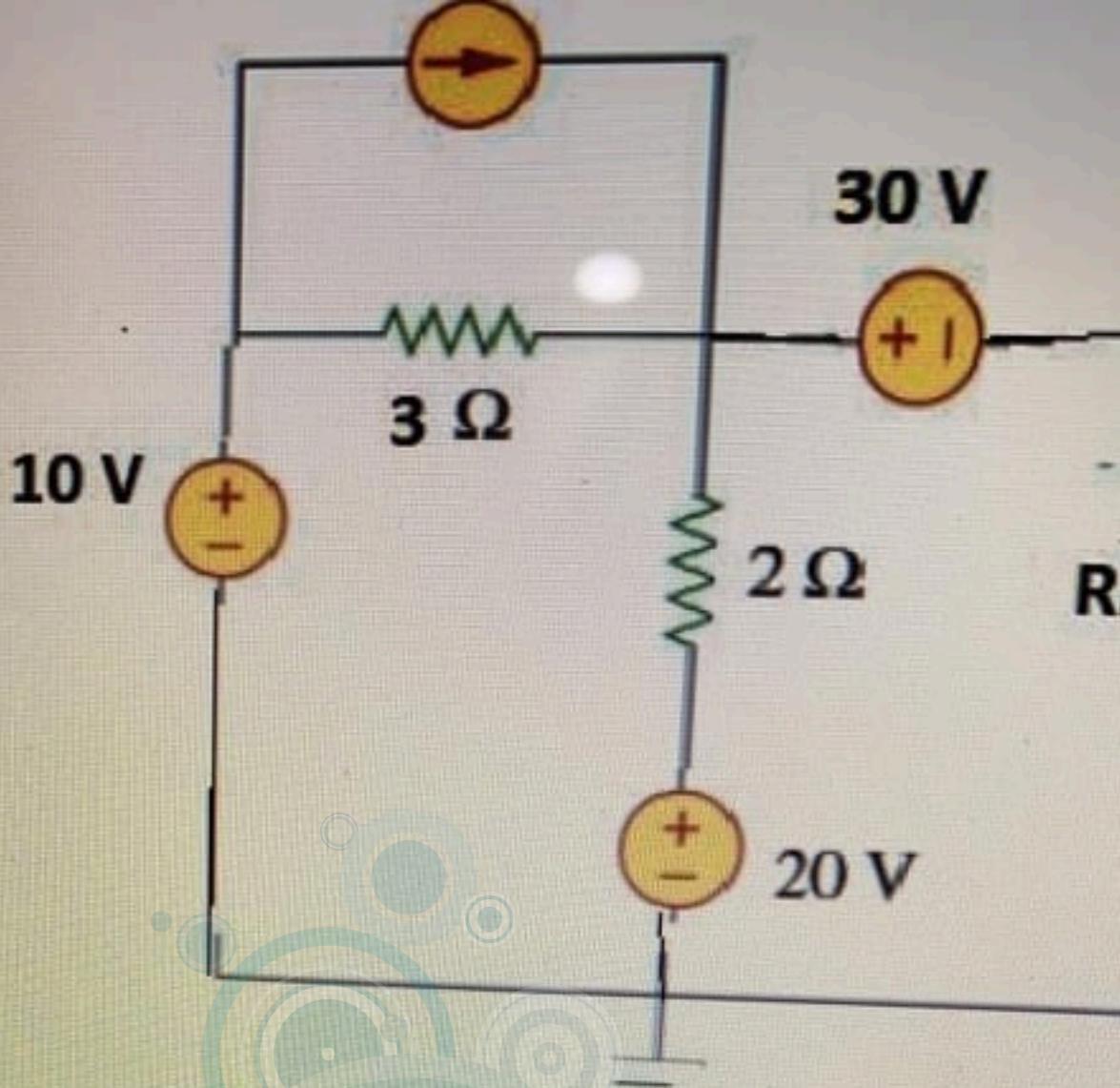
Question 13/15 Answer is mandatory

The KCL equation obtained from the supermesh in the circuit shown is:



$I_2 - 3I_4 = 0$

$2I_1 + I_2 + 2I_4 = 0$



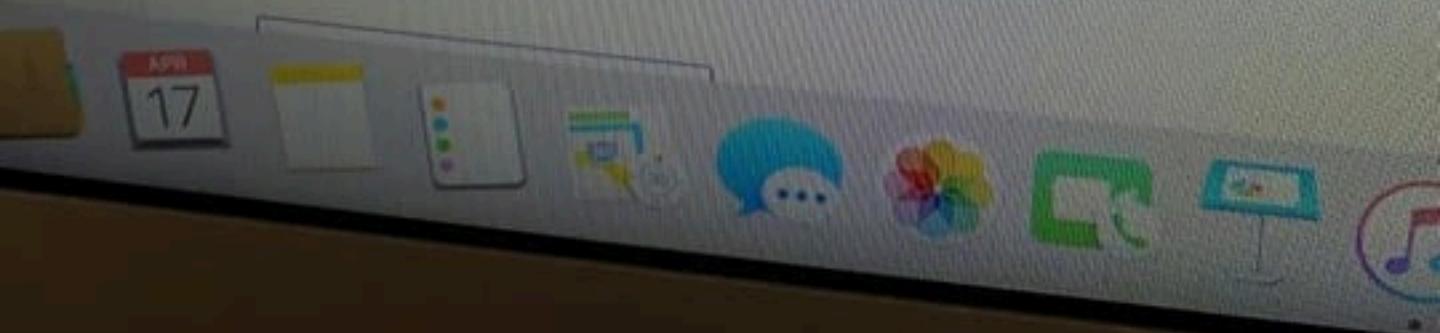
- 8 V

8 V

52 V

- 52 V

20

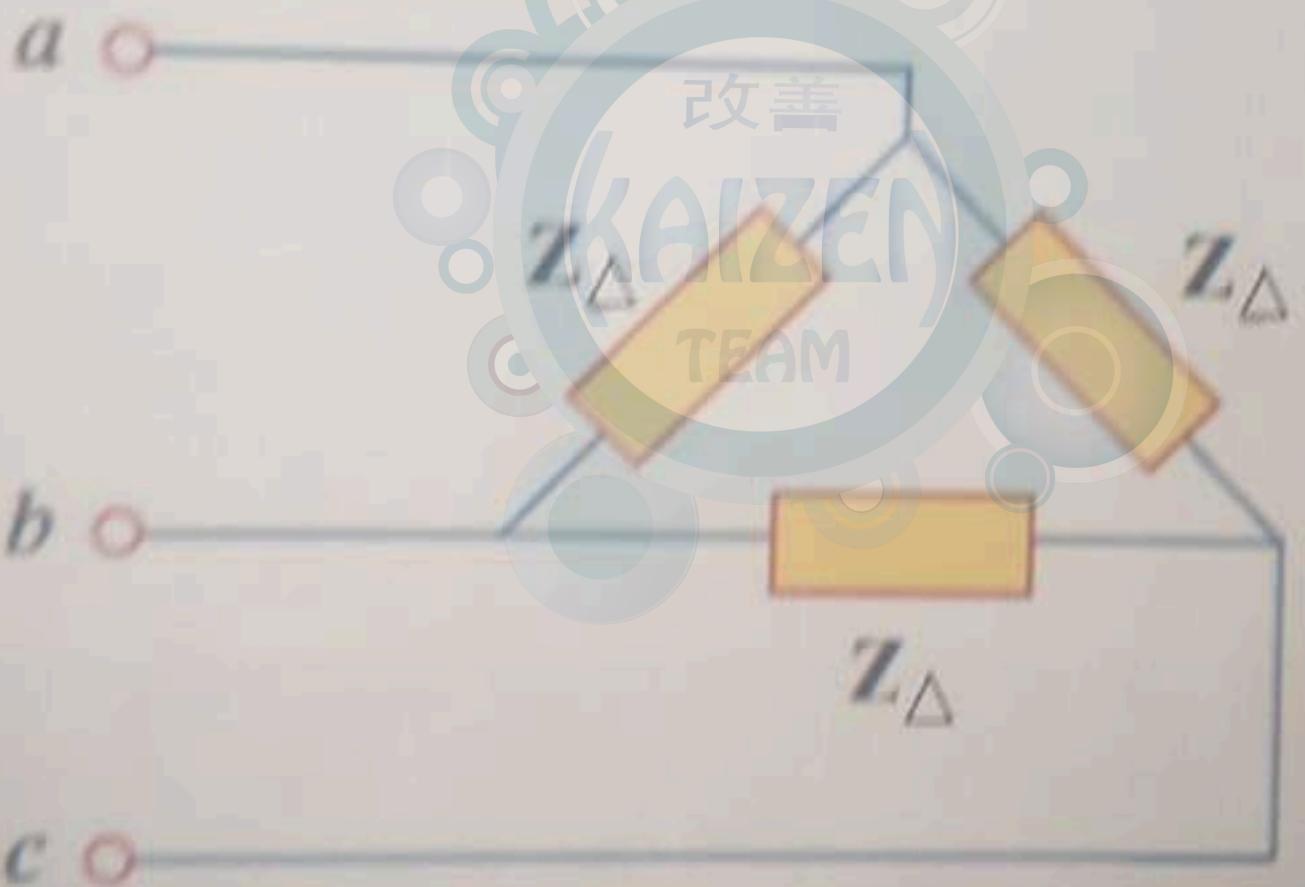


group - S...

A three phase balanced voltages supply a Δ -connected balanced load.

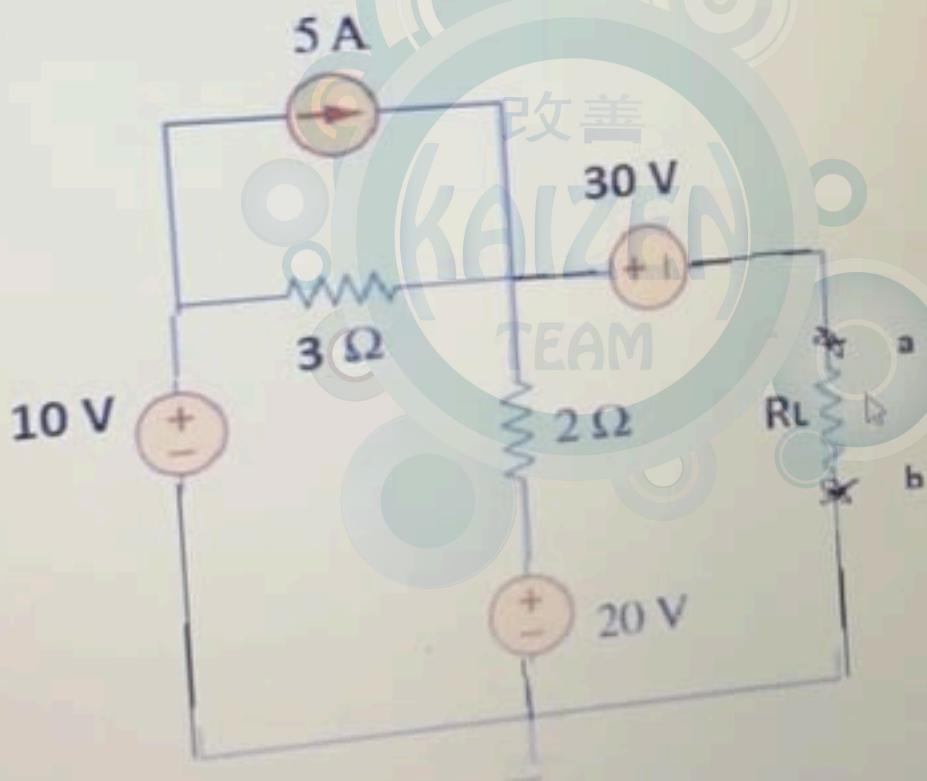
Given $V_{bc} = 416\angle 0^\circ \text{V(rms)}$, $Z_\Delta = 7.2\angle 0^\circ \Omega$.

Assuming positive sequence (abc).



Question 2/15 Answer is mandatory

V_{th} as seen between a and b is equal to:



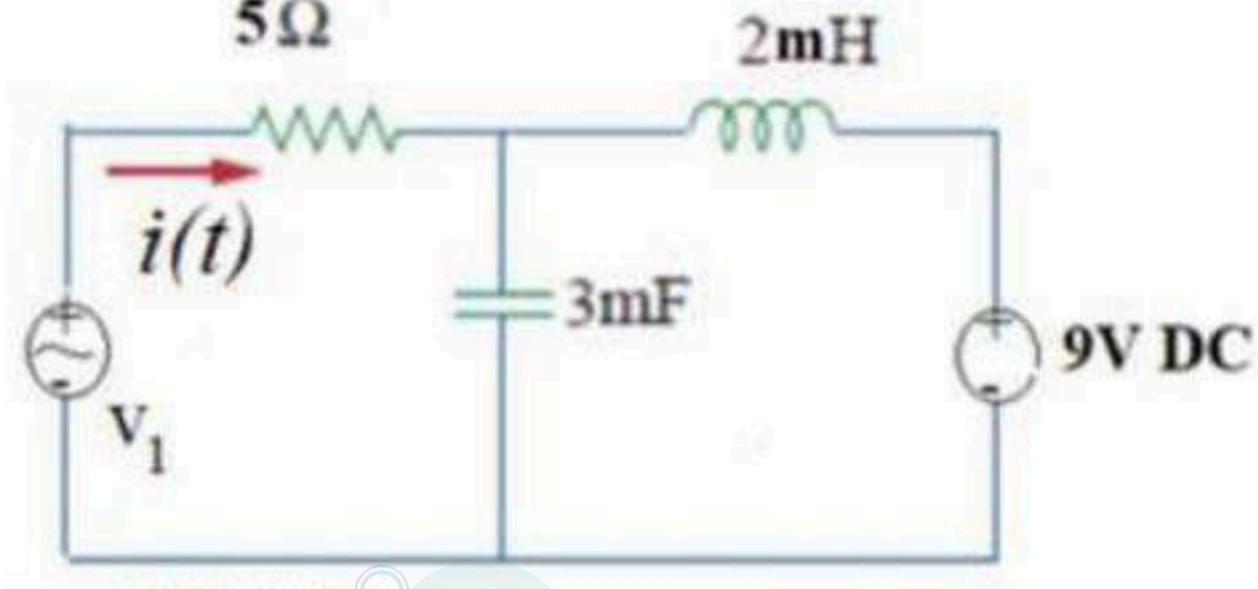
-8 V

8 V

52 V



In the circuit shown, the current $i(t)$ due to both voltage source is



$$v_1(t) = 10 \cos(1000t) \text{ V}$$

$i(t) = 1.994 \cos(1000t - 4.5^\circ) - 1.8$

A

$i(t) = 1.8 + 1.857 \cos(1000t - 21.8^\circ)$

None of these

$i(t) = 3.590 \cos(1000t - 11.1^\circ)$

Question 5/15 Answer is mandatory

The equivalent resistance at the terminals a-b for the circuits shown in Figure 7, is equal to



Figure 7:

a. Zoom image

22.5 Ω

32.5 Ω

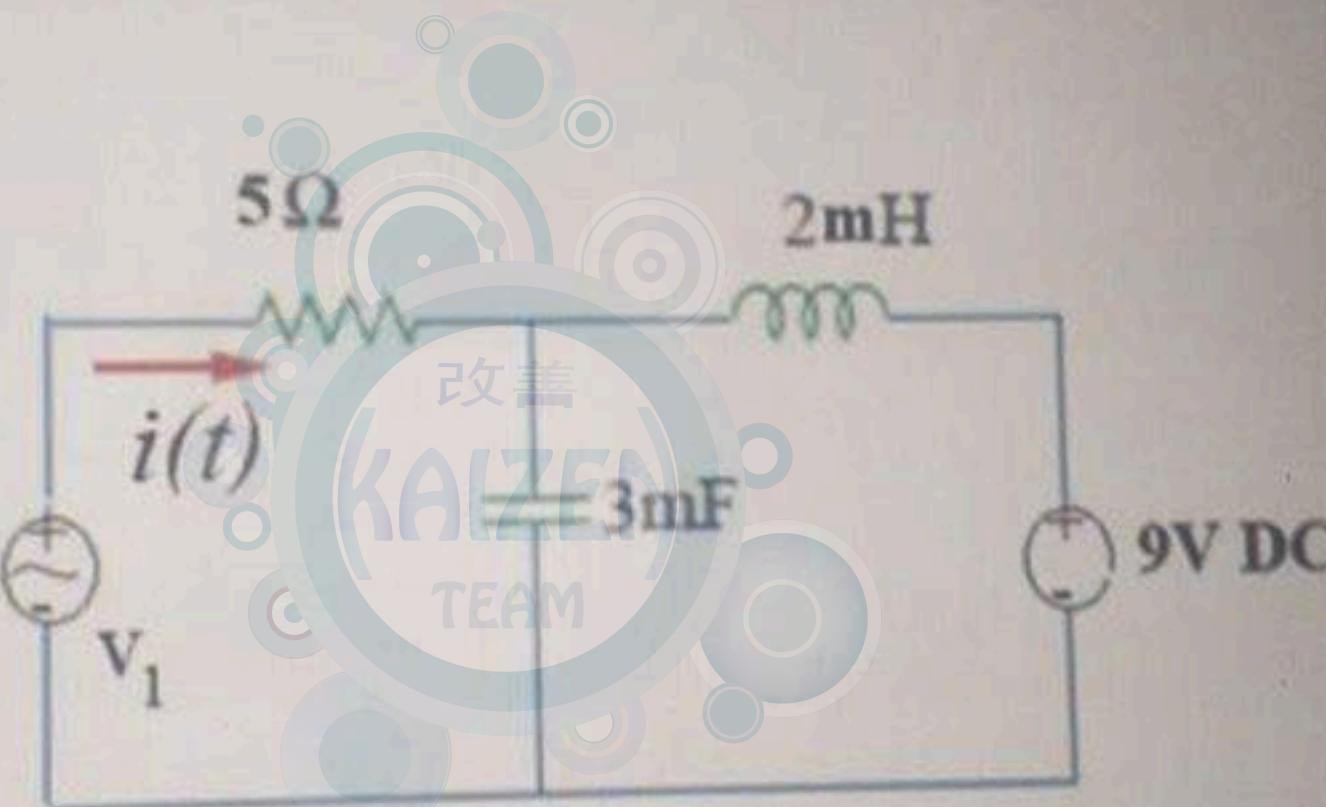
15 Ω

41.45 Ω

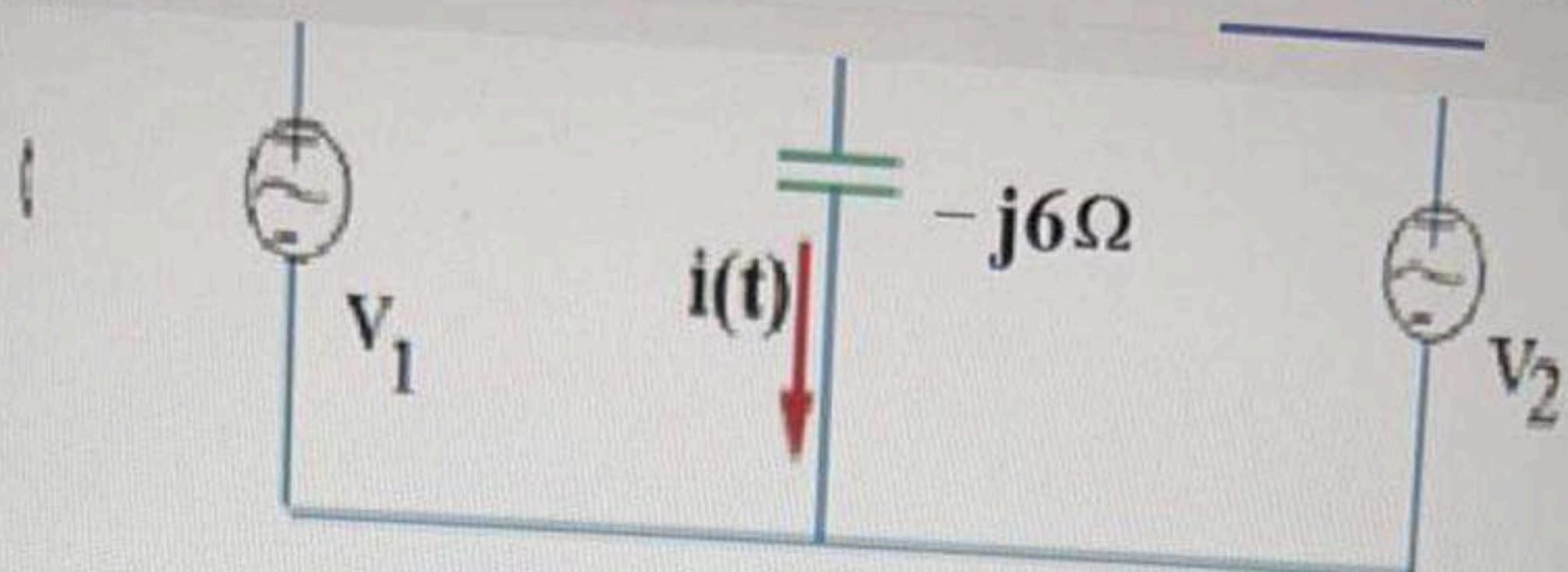
DELL

Question 1/6 (3 p.)

In the circuit shown, the current $i(t)$ due to both voltage source is



$$v_1(t) = 10 \cos(1000t) \text{ V}$$

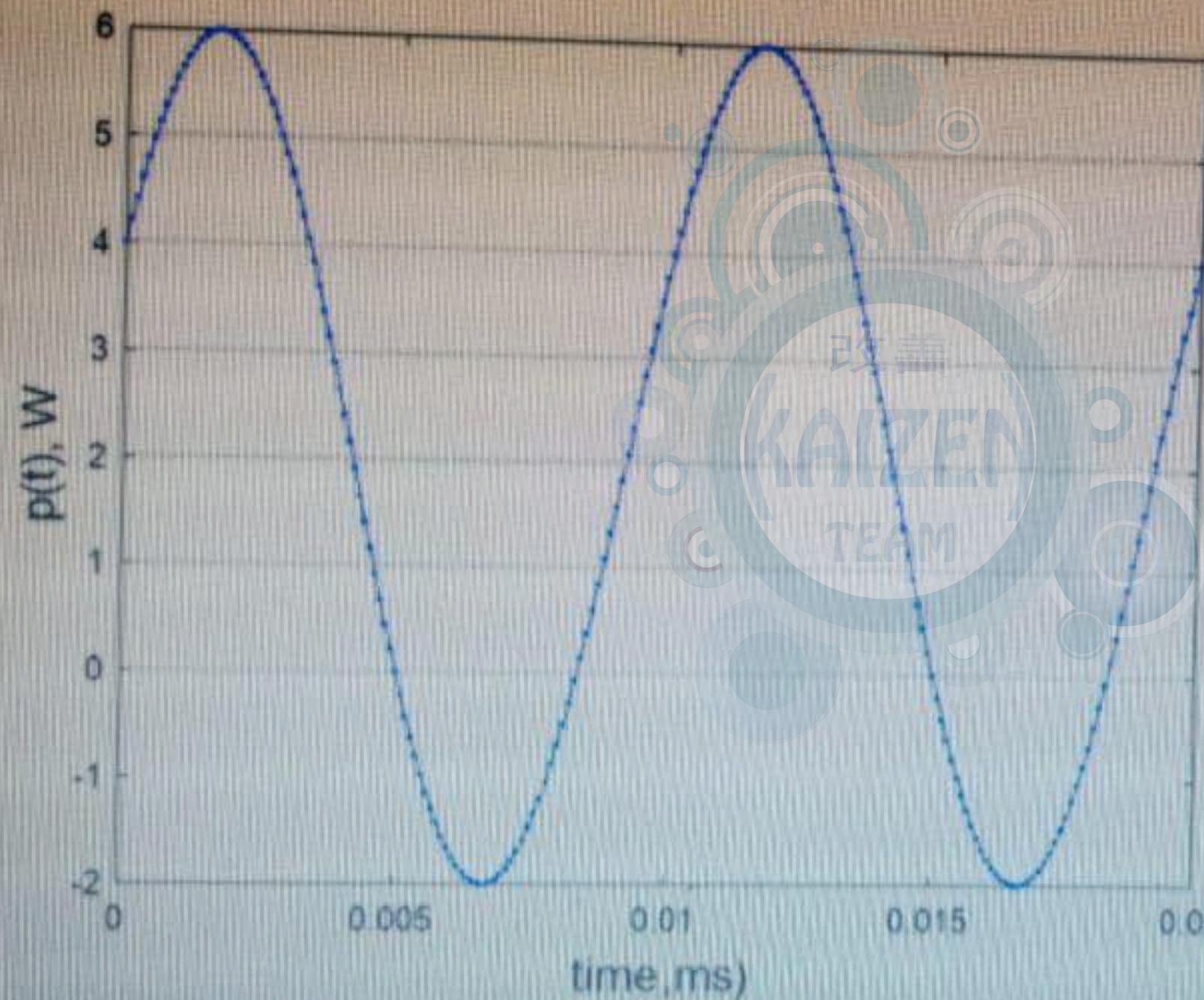


- $i(t) = 160.9 \cos(100\pi t + 147.5^\circ) \text{ mA}$
- $V_C = 0.965 \angle 57.5^\circ$
- $I_C = j0.166666 \times V_C$
- $$V_C = \frac{\frac{10e^{j30}}{5} + \frac{15e^{j0}}{j8}}{\frac{1}{5} + \frac{1}{-j6} + \frac{1}{j8}} =$$
- $$V_C = \frac{\frac{10e^{j30}}{5} + \frac{15e^{j0}}{j6}}{\frac{1}{5} + j\frac{1}{8} - j\frac{1}{6}} =$$

SUBMIT ANSWER



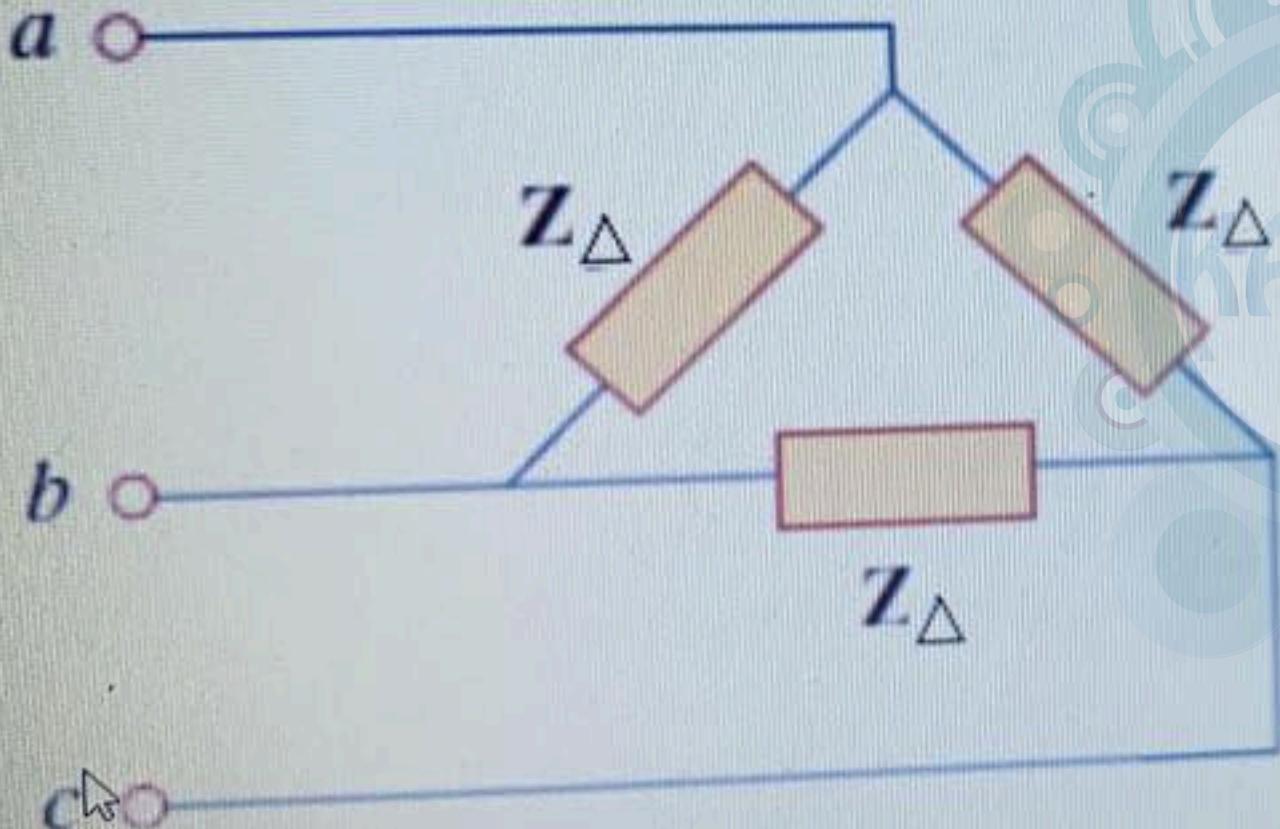
Given the voltage of $v(t) = 100\cos(\omega t)$, V across the load and the instantaneous power absorbed / delivered appeared as shown in the figure. The $p(t) = P \pm |S| \cos(2\omega t + \theta_v + \theta_i)$



Question 3/13

A three phase balanced voltages supply a Δ -connected balanced load. Given $V_{bc} = 416\angle 0^\circ \text{V(rms)}$, $Z_\Delta = 7.2\angle 0^\circ \Omega$.

Assuming positive sequence (abc).



The line current I_a equals to

Question 10/13

A load Z draws 12 kW at a power factor of 0.856 lagging from a 240-V rms sinusoidal source. The load impedance equal to

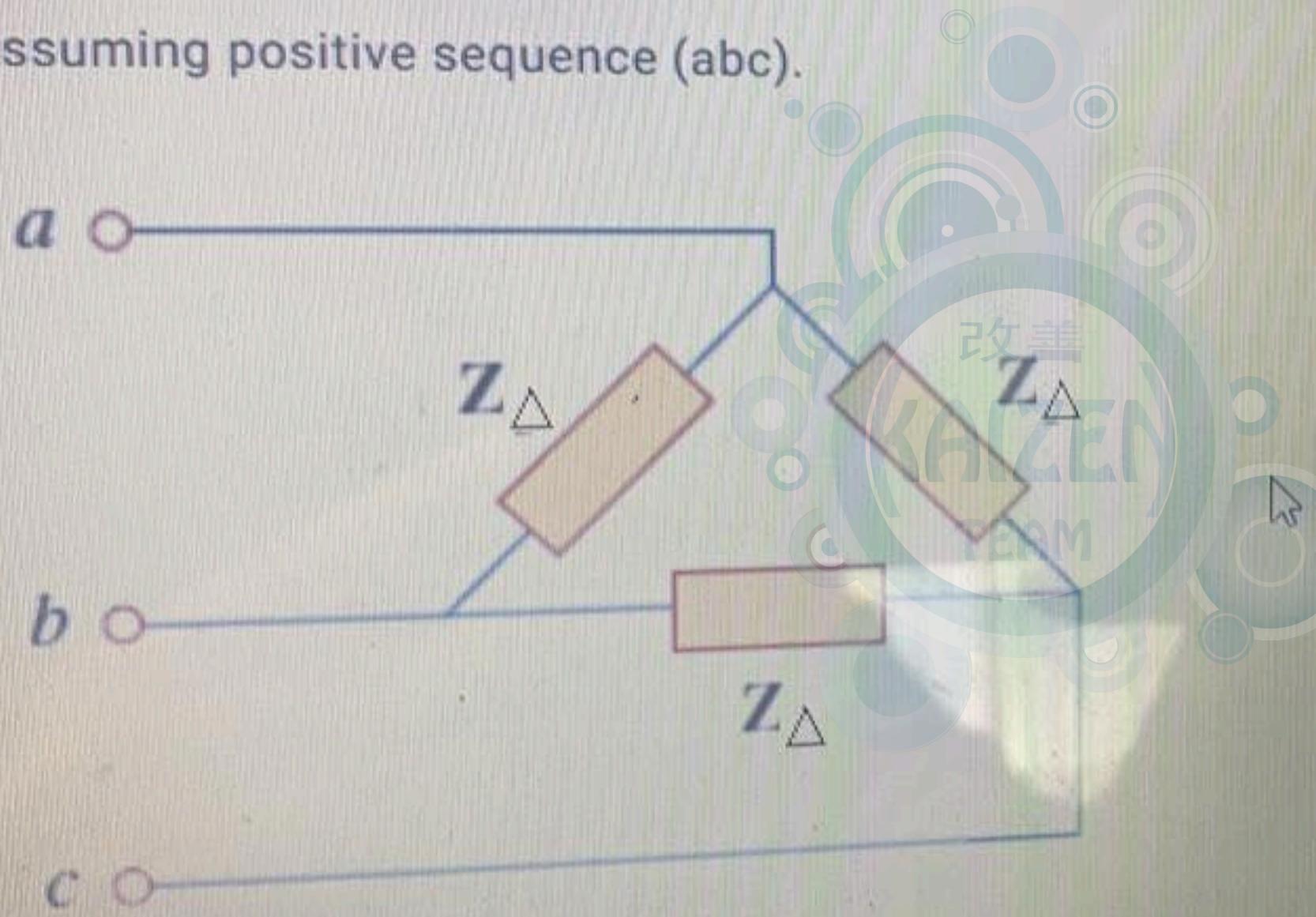
- $1.65 + j 2.28 \Omega$
- $3.52 + j 2.12\Omega$
- $3.52 - j 2.12\Omega$
- $1.65 - j 2.28 \Omega$

SUBMIT ANSWER

Question 5/13

A three phase balanced voltages supply a Δ -connected balanced load. Given $V_{bc} = 416\angle 0^\circ \text{V(rms)}$,
 $Z_\Delta = 7.2\angle 30^\circ \Omega$.

Assuming positive sequence (abc).

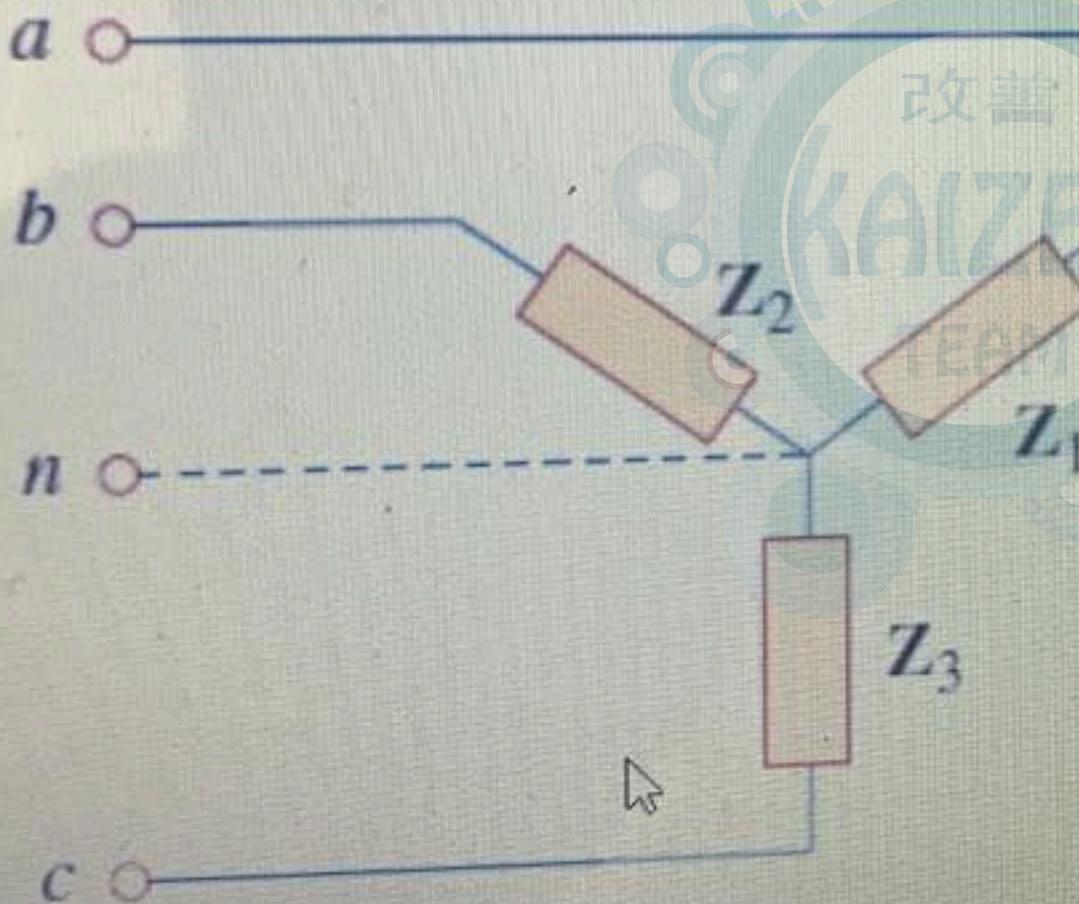


The complex power equals to

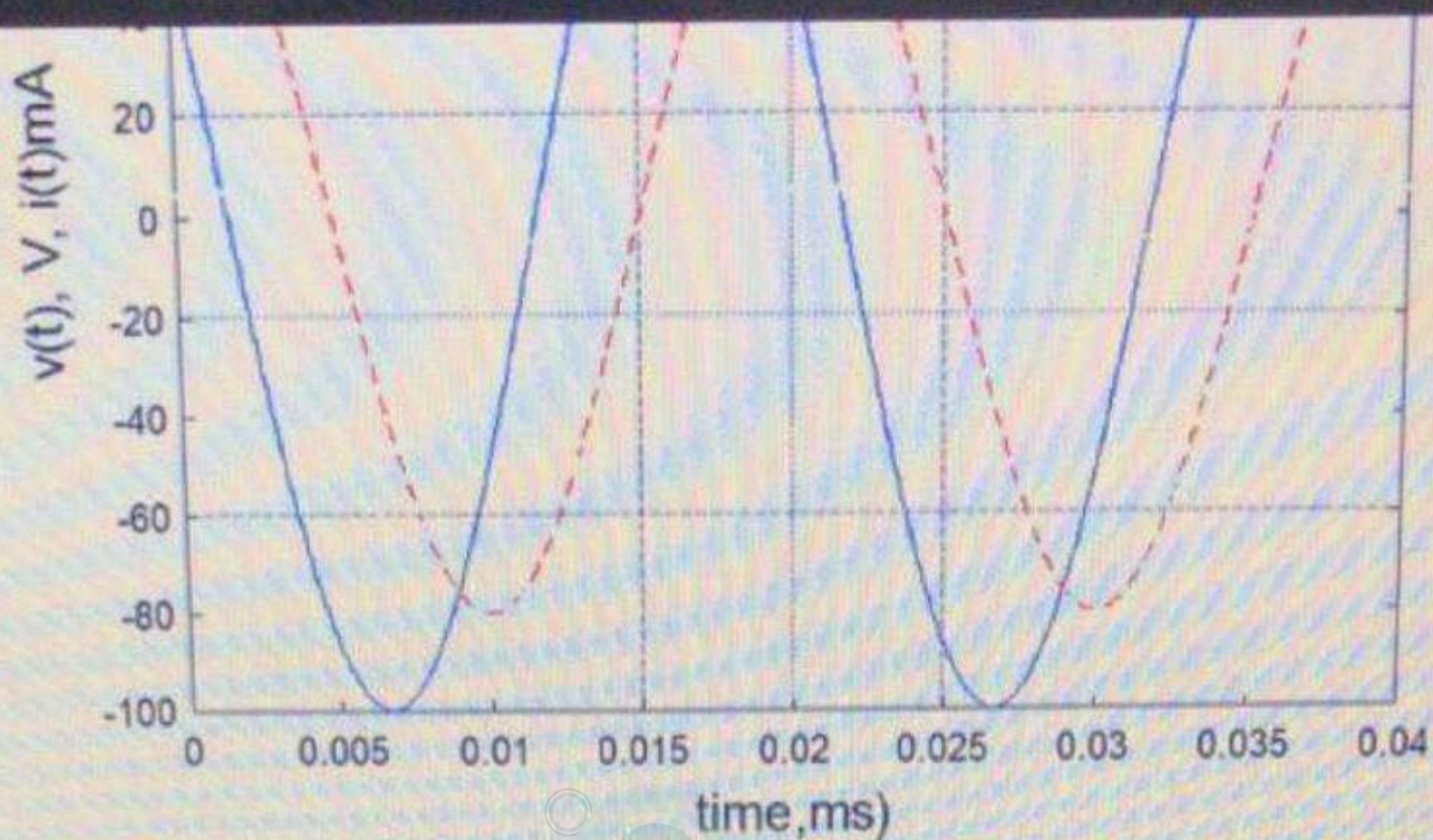
Question 2/13

A three phase balanced voltages supply a Y-connected balanced load. Given $V_{ca} = 416\angle 30^\circ \text{V(rms)}$, $Z_Y = 2.4\angle 36.87 \Omega$.

Assuming positive sequence (abc)



The current I_{bn} equals to ...



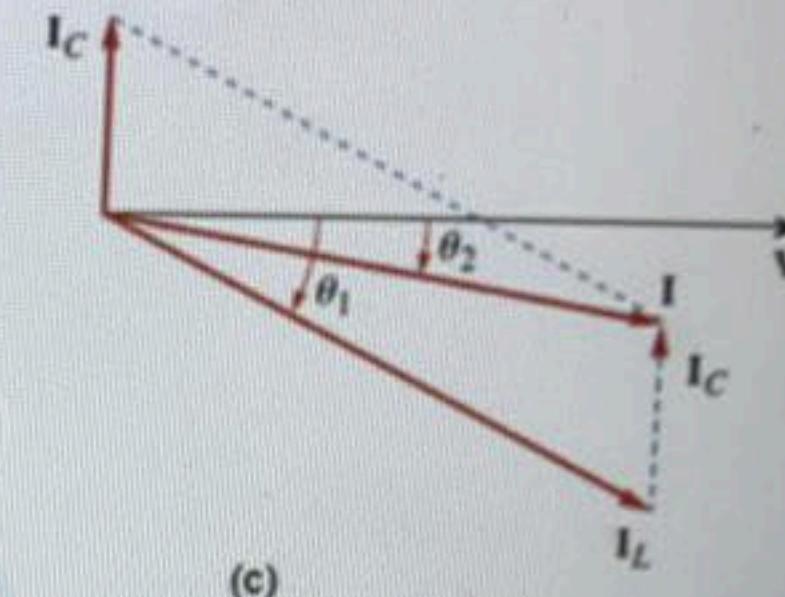
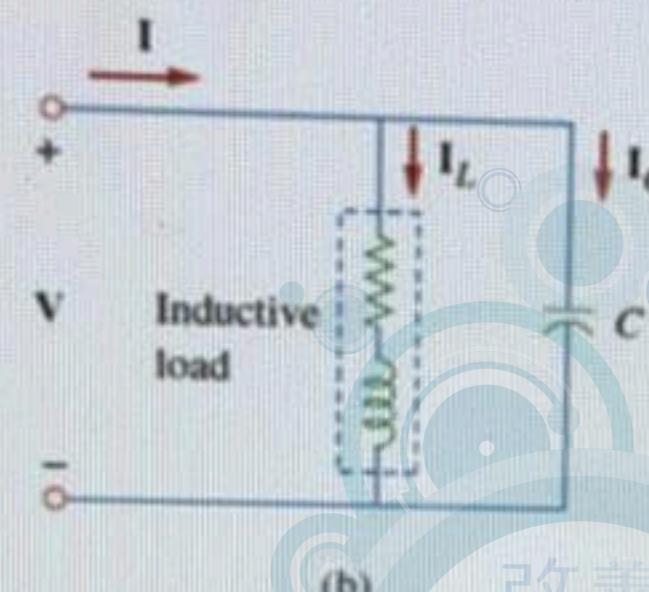
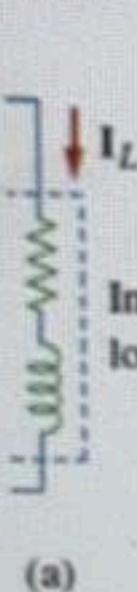
Zoom image

- R = 0.625Ω , L = 4.4458mH
- None of these
- R = 0.625Ω , L = 3.446mH
- R = 0.625Ω , C = 3.4458 μF
- R=0.625Ω , Cr34.458 μF

SUBMIT ANSWER



$V = 250\text{-V (rms), 50-Hz, Inductive load } S = 5 \text{ kVA } \angle \theta$. Where: $\theta_1 = -27^\circ$, $\theta_2 = -11^\circ$.



Zoom image

Choose the correct answers.

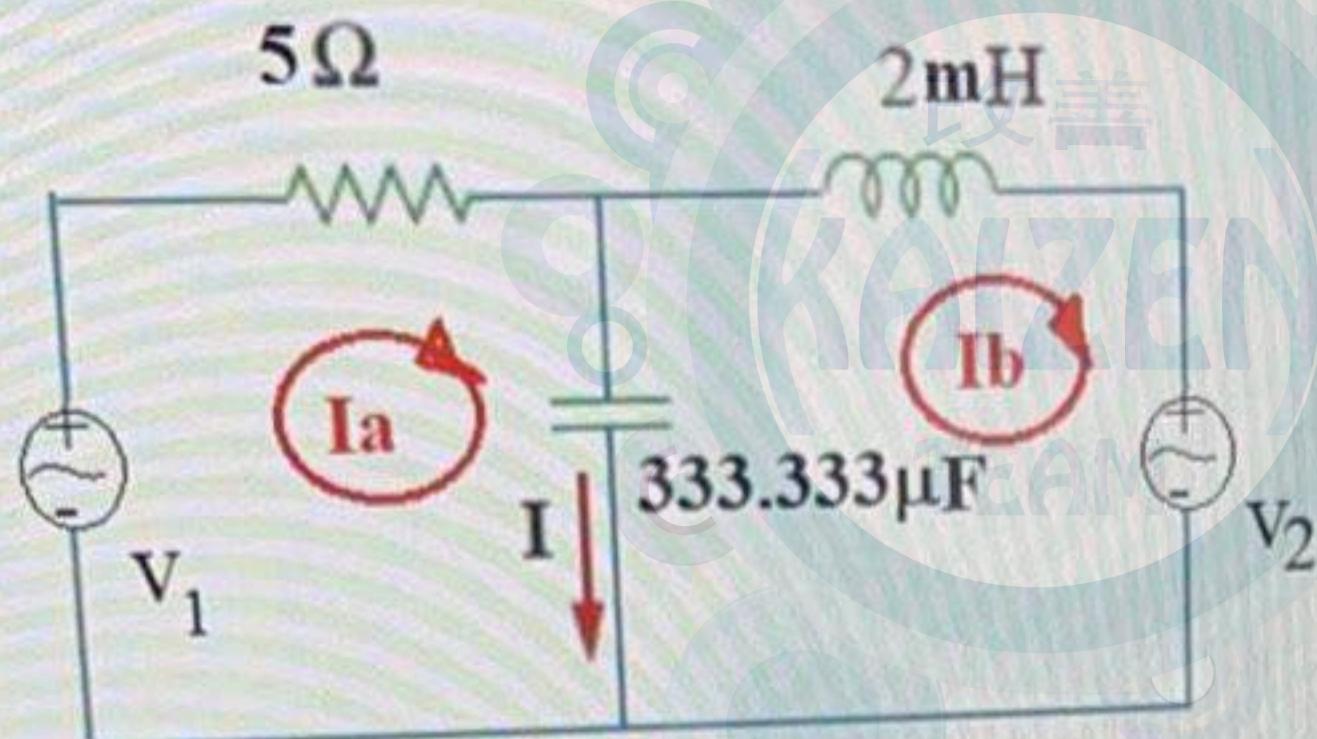
$I_L = 20\angle -11^\circ \text{A}$

$I = 17.154\angle -36.87^\circ \text{A}$

$I_C = 5.616\angle -90^\circ \text{A}$

Question 1/6 (4 p.)

The source voltages $v_1(t) = -10\cos(1000t + 30^\circ)$, $v_2(t) = -7\sin(1000t - 30^\circ)$. To find the voltage across the capacitor \bar{V}_c may found by one or more equations as follows.



- $(5 + j3)I_a - j3I_b = 10\angle 210^\circ$
- $-j3I_a - j1I_b = 7\angle 120^\circ$
- $V_c = -j3(I_a - I_b)$

- None of these

Question 3/13

A load Z draws 12 kW at a power factor of 0.856 lagging from a 240-V rms sinusoidal source. The load impedance equal to

- $1.65 + j 2.28 \Omega$
- $1.65 - j 2.28 \Omega$
- $3.52 + j 2.12\Omega$
- $3.52 - j 2.12\Omega$

SUBMIT ANSWER

Question 3/13

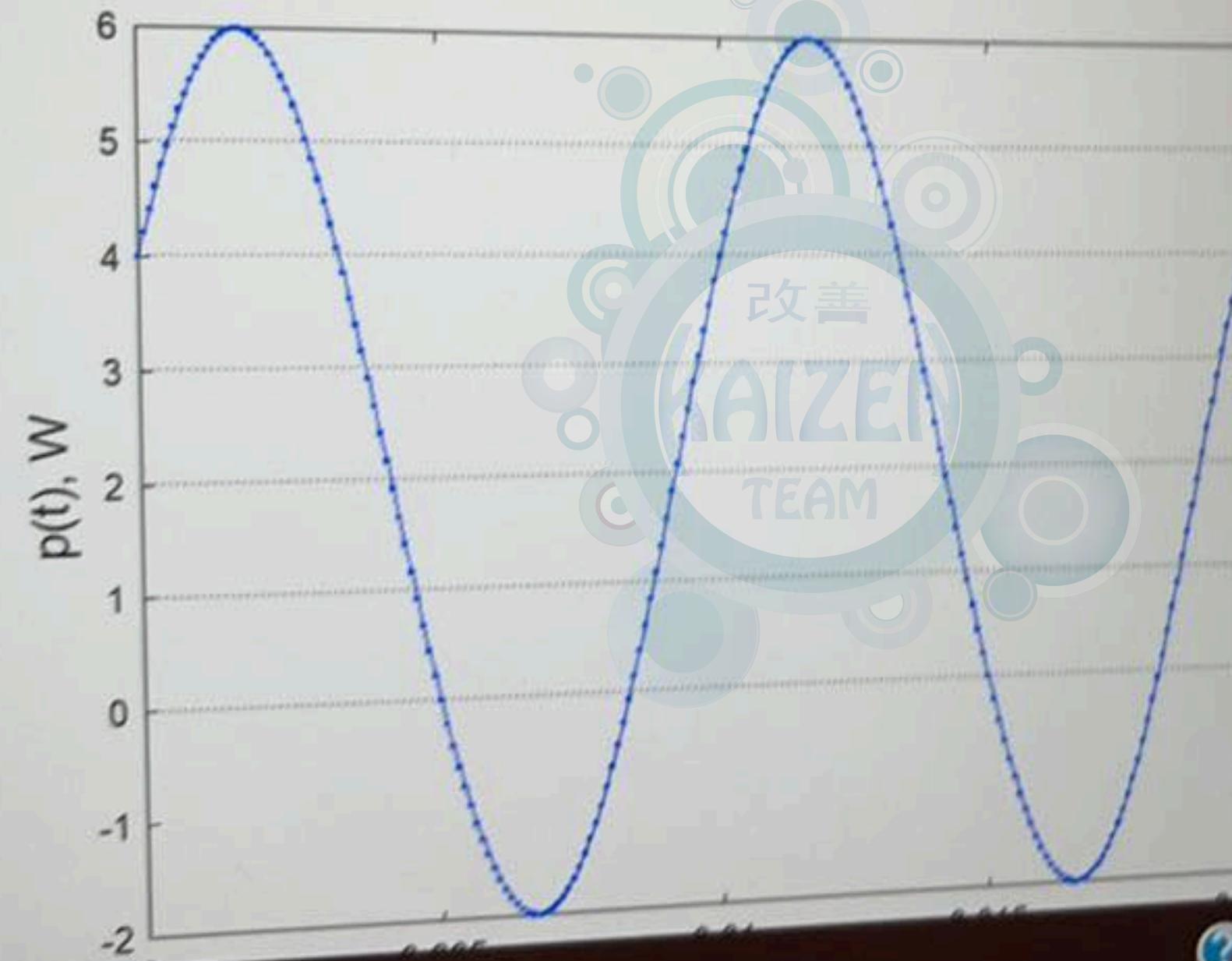
A load Z draws 12 kW at a power factor of 0.856 lagging from a 240-V rms sinusoidal source. The apparent and reactive powers delivered to the load equals to

- 15 kVA
- 9 kVAR
- 7.25 kW
- 14.28 kVA
- 14.02 kVA
- 7.25 kVAR
- 20.48 kVA
- 16.6 kVAR

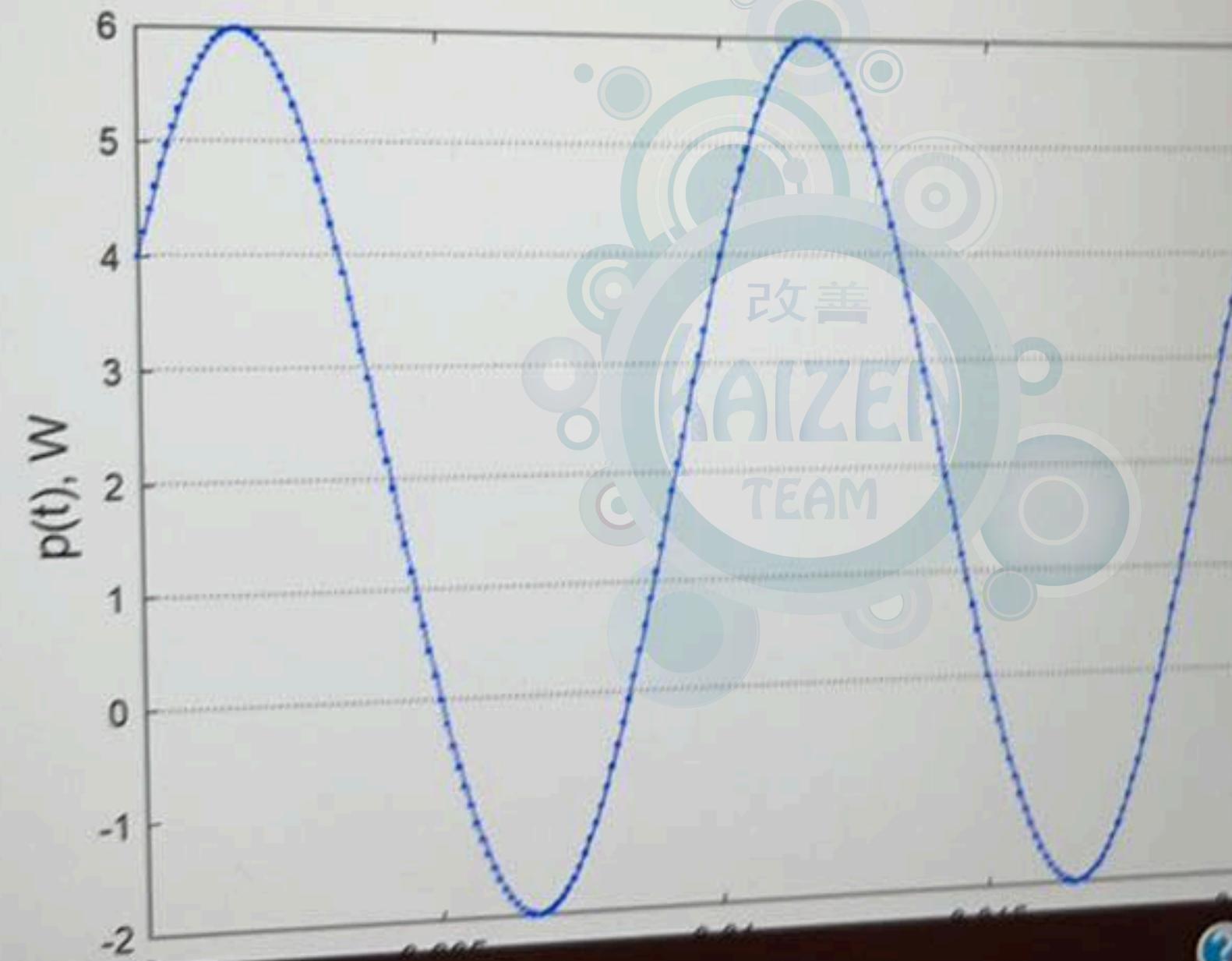


SUBMIT ANSWER

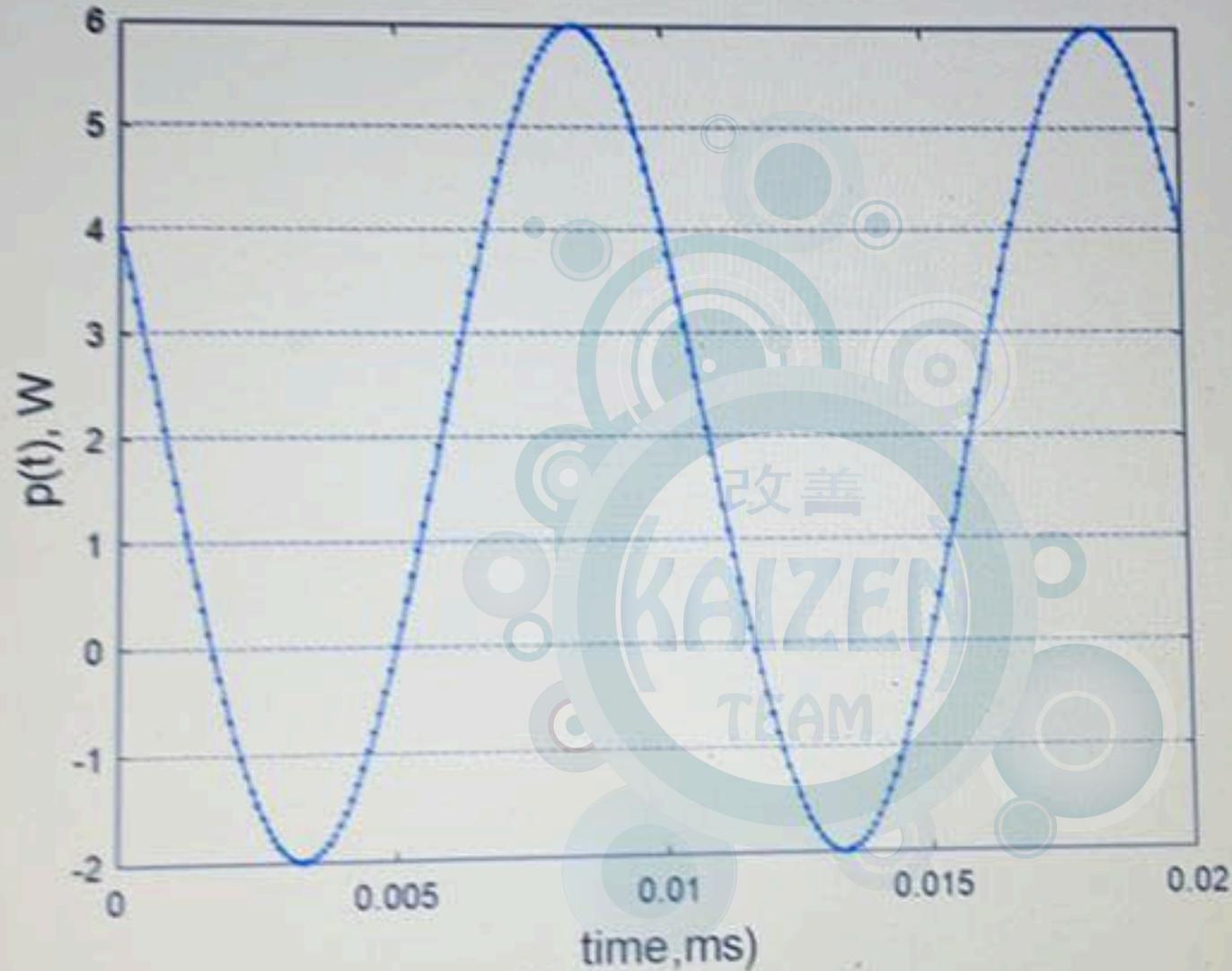
Given the voltage of $v(t) = 100\cos(\omega t)$, V across the load and the instantaneous power absorbed / delivered appeared as shown in the figure. The $p(t) = P \pm |S|\cos(2\omega t + \theta_v + \theta_i)$



Given the voltage of $v(t) = 100\cos(\omega t)$, V across the load and the instantaneous power absorbed / delivered appeared as shown in the figure. The $p(t) = P \pm |S|\cos(2\omega t + \theta_v + \theta_i)$



Given the voltage of $v(t) = 100\cos(\omega t)$, V across the load and the instantaneous power absorbed / delivered appeared as shown in the figure. The $p(t) = P \pm |S|\cos(2\omega t + \theta_v + \theta_i)$



[Zoom image](#)

The values of reactive power Q and power angle θ are:

$Q = \dots$, VAR,

Question 4/5 Answer is mandatory

The $v(t)$ and $i(t)$ across a load are given by $v(t) = 250\cos(\omega t)V$, $i(t) = 200\cos(\omega t + 60^\circ)mA$, respectively. Then, the impedance of the load in Ω is:

$625 + j1082.5$

$0 - j1250.0$

$0 + j1250.0$

$883.88 - j883.88$

$1082.5 - j625.0$

$883.88 + j883.88$

$625 - j1082.5$

$1082.5 + j625.0$

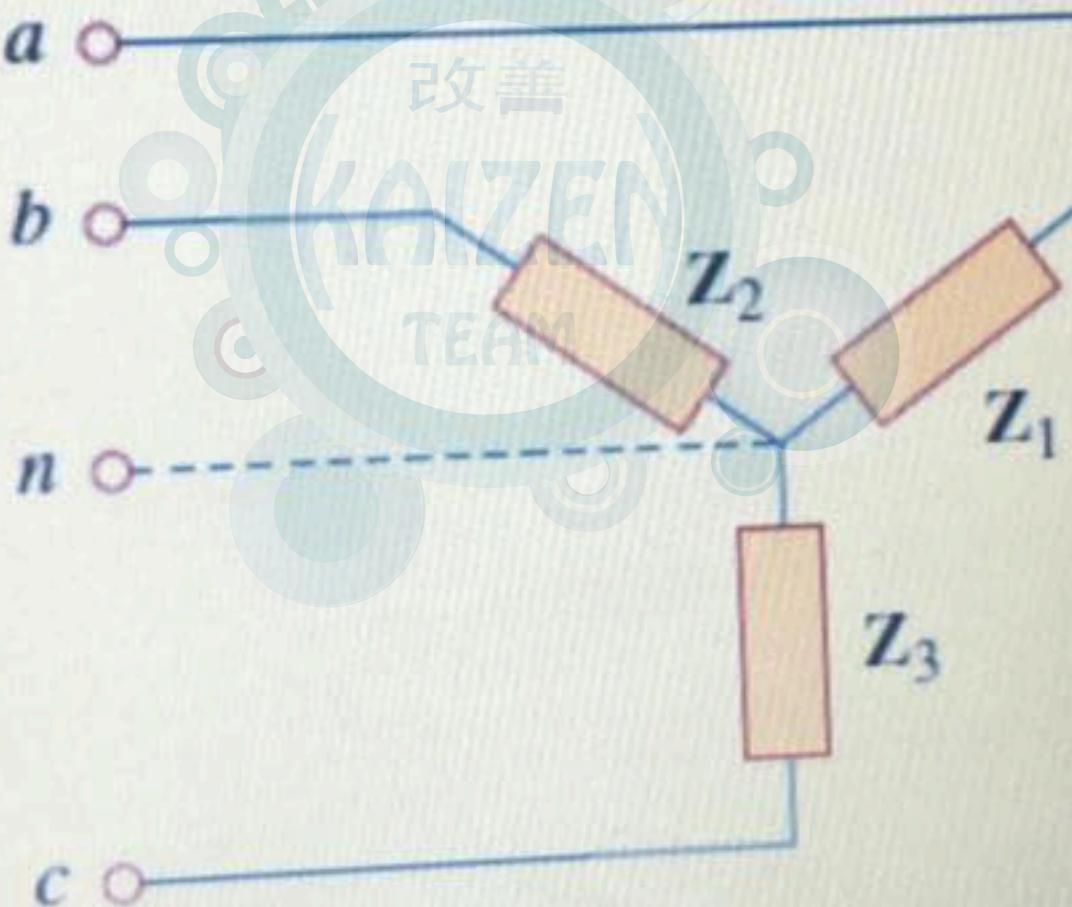


SUBMIT ANSWER

Question 1/13

A three phase balanced voltages supply a Y-connected balanced load. Given
 $V_{cn} = 240\angle 20^\circ \text{V(rms)}$, $Z_Y = 2.4\angle 36.87 \Omega$.

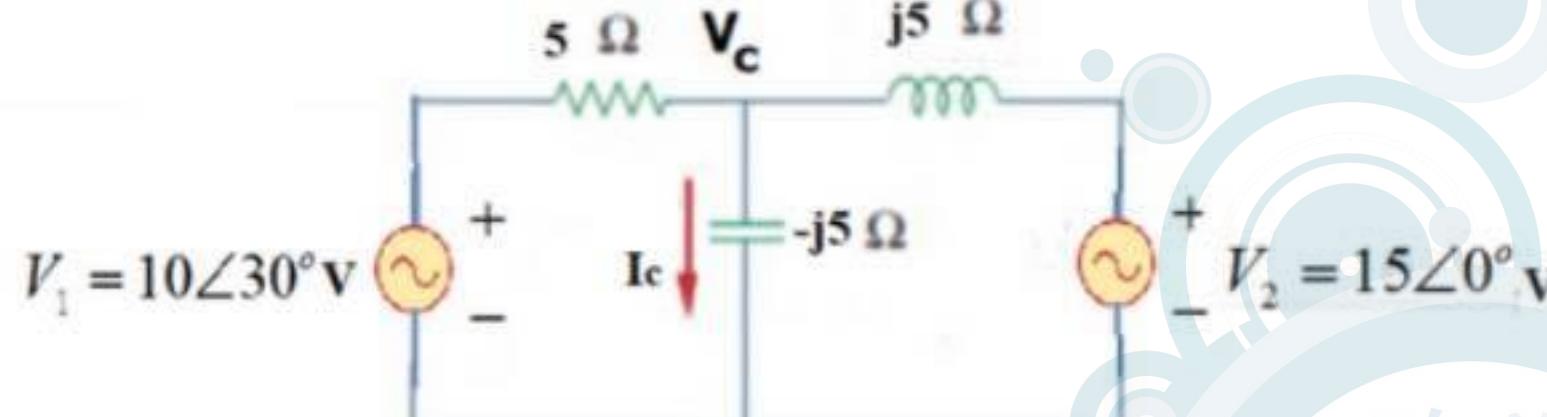
Assuming positive sequence (abc).





Question 2/5 Answer is mandatory

Find I_c (A) and V_c (V) respectively, for the circuit shown.



- $I_c = 2.7343 + j2.5523, V_c = 12.7615 - j13.6716$
- $I_c = 1.9375 + j1.0677, V_c = 5.3386 - j9.6875$
- $I_c = 0.9870 + j1.2377, V_c = 7.4262 - j5.9221$
- $I_c = 2.0000 + j1.7320, V_c = 8.6600 - j10.0000$
- $I_c = 1.7737 - j2.6916, V_c = -2.6916 - j1.7737$

SUBMIT ANSWER

A load Z draws 12 kW at a power factor of 0.586 lagging from a 240-V rms sinusoidal source. The apparent and reactive powers delivered to the load equals to

15 kVA

9 kVAR

14.02 kVA

7.25 kVAR

20.48 kVA

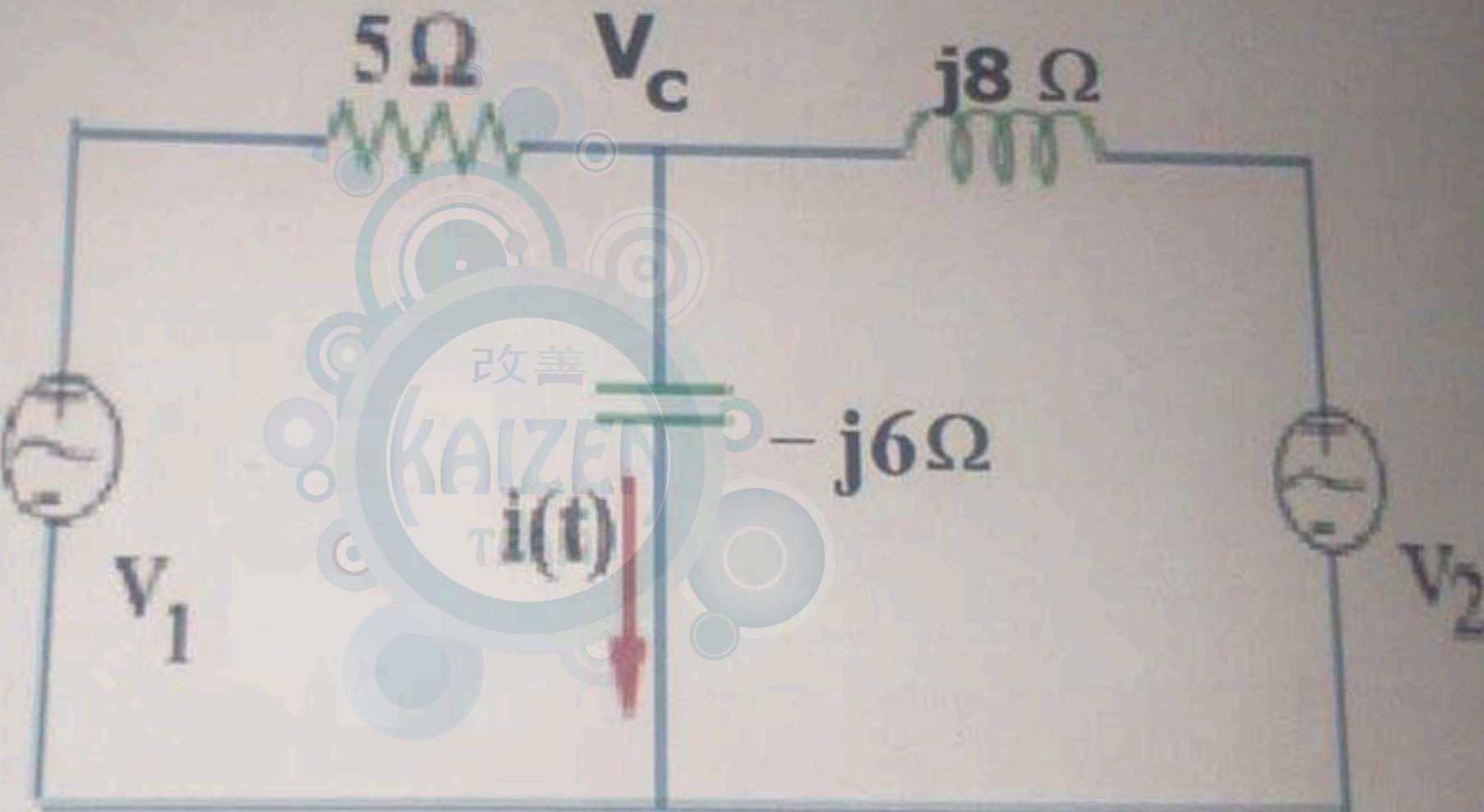
16.6 kVAR

7.25 kVA

14.02 kVAR

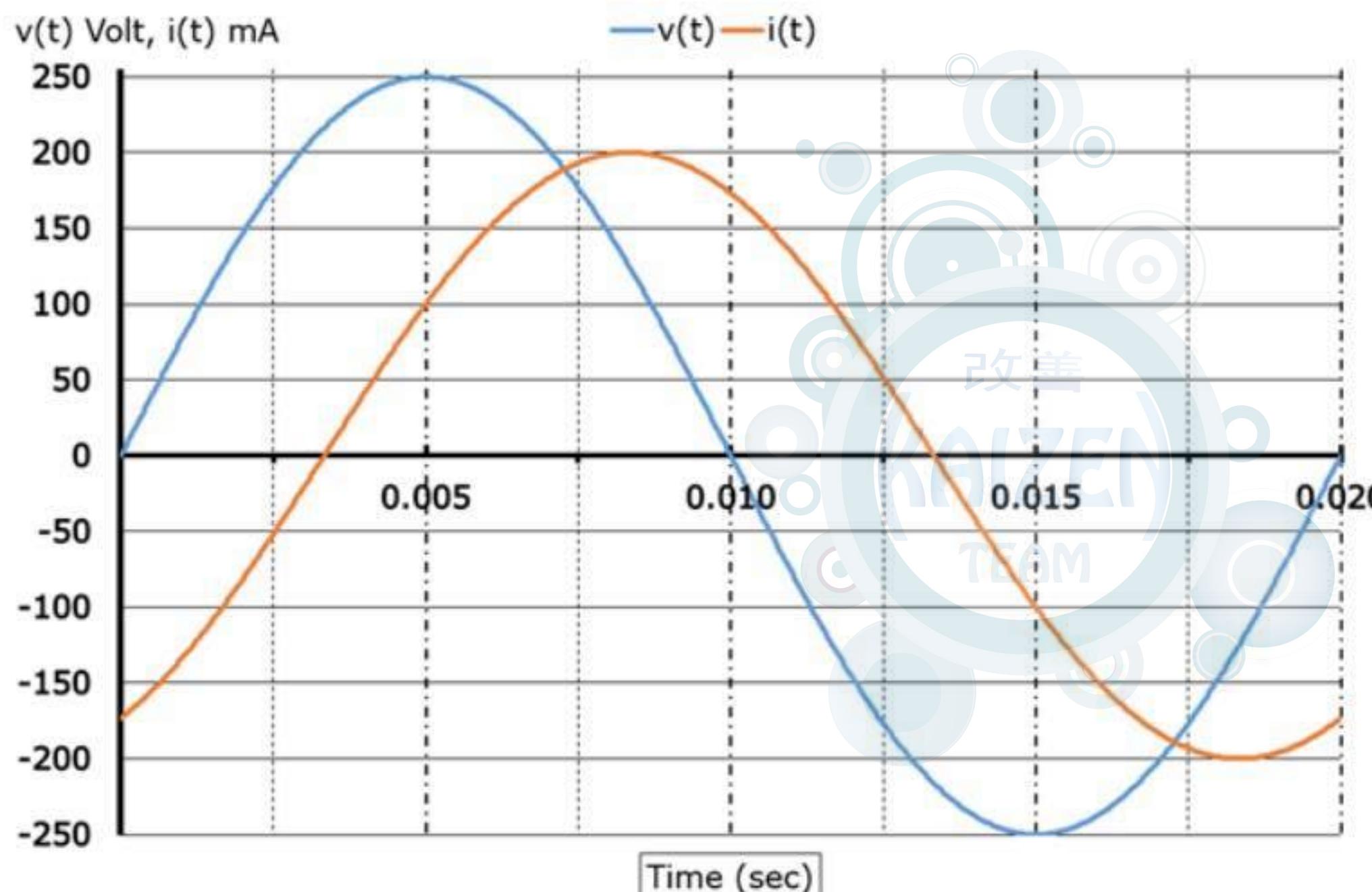


SUBMIT ANSWER

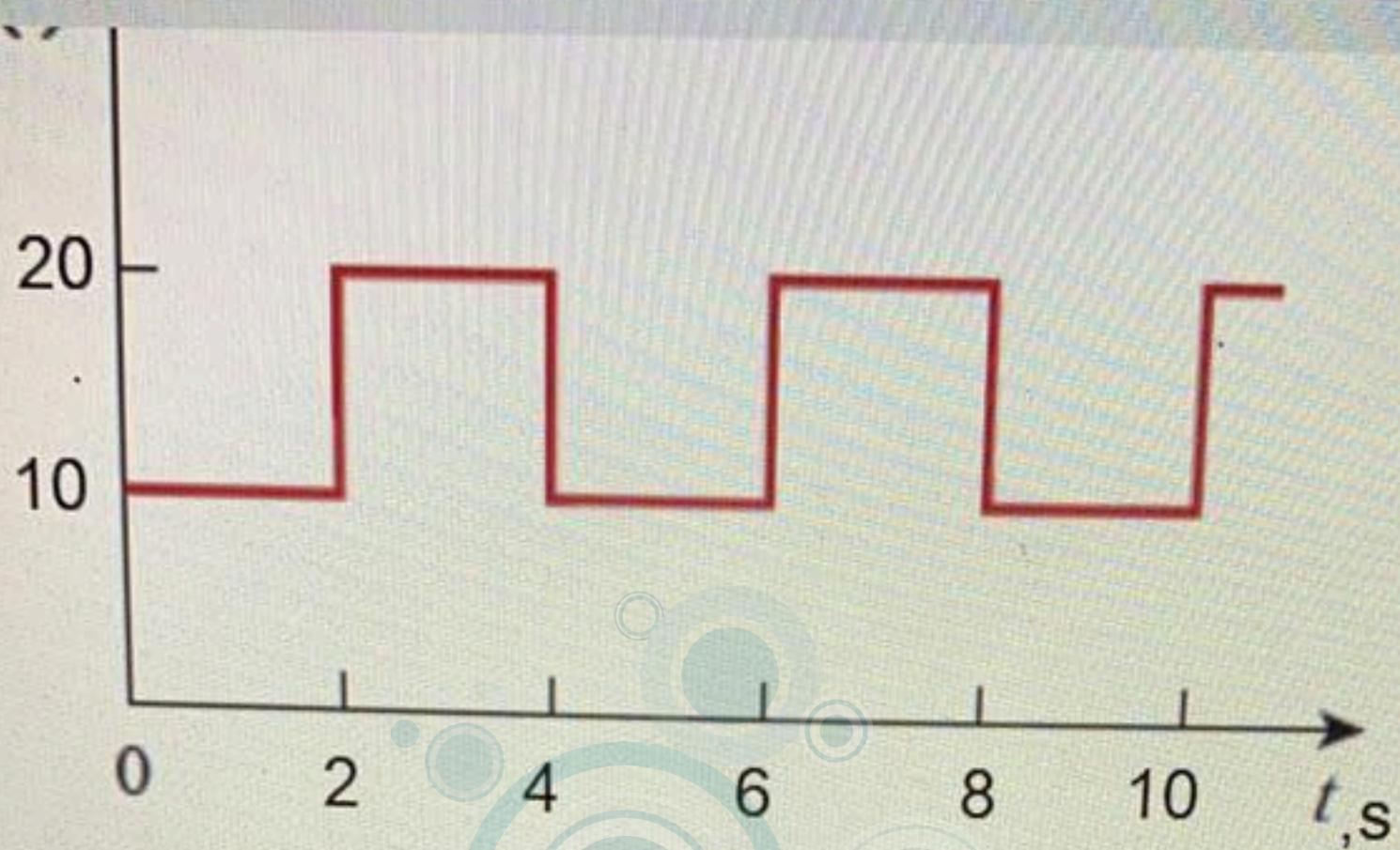


Question 5/5 Answer is mandatory

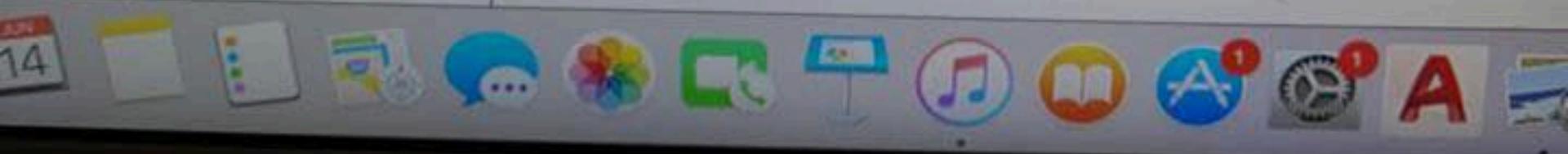
The figure shows $v(t)$ and $i(t)$ across a load. Then, the expression of the current $i(t)$ is given in the form of:

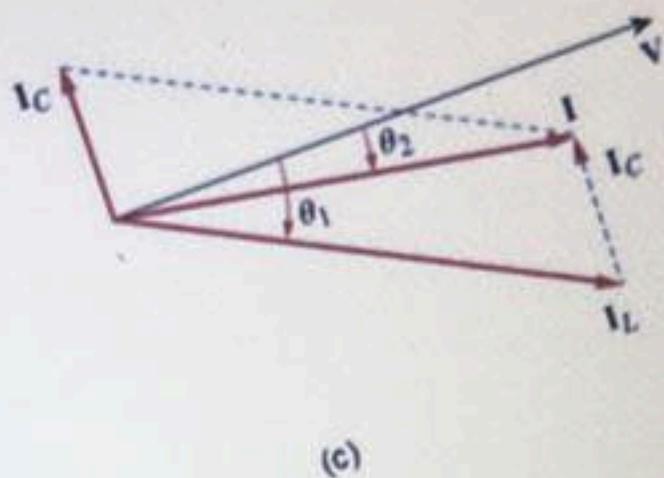
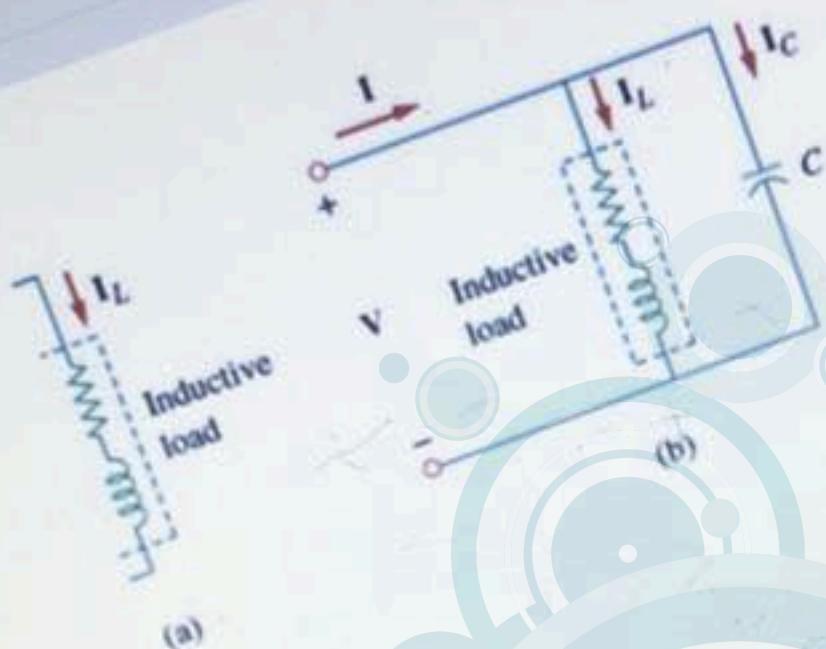


$i(t) = 200\cos(100\pi t - 60^\circ)\text{mA}$



- 15.811V
- 11.14
- None of these
- 9.811V
- 14.14V
- 8.736V





The size of the capacitor to raise the power factor to $\text{pf} = \cos(-11^\circ)$.

Zoom image

(a)

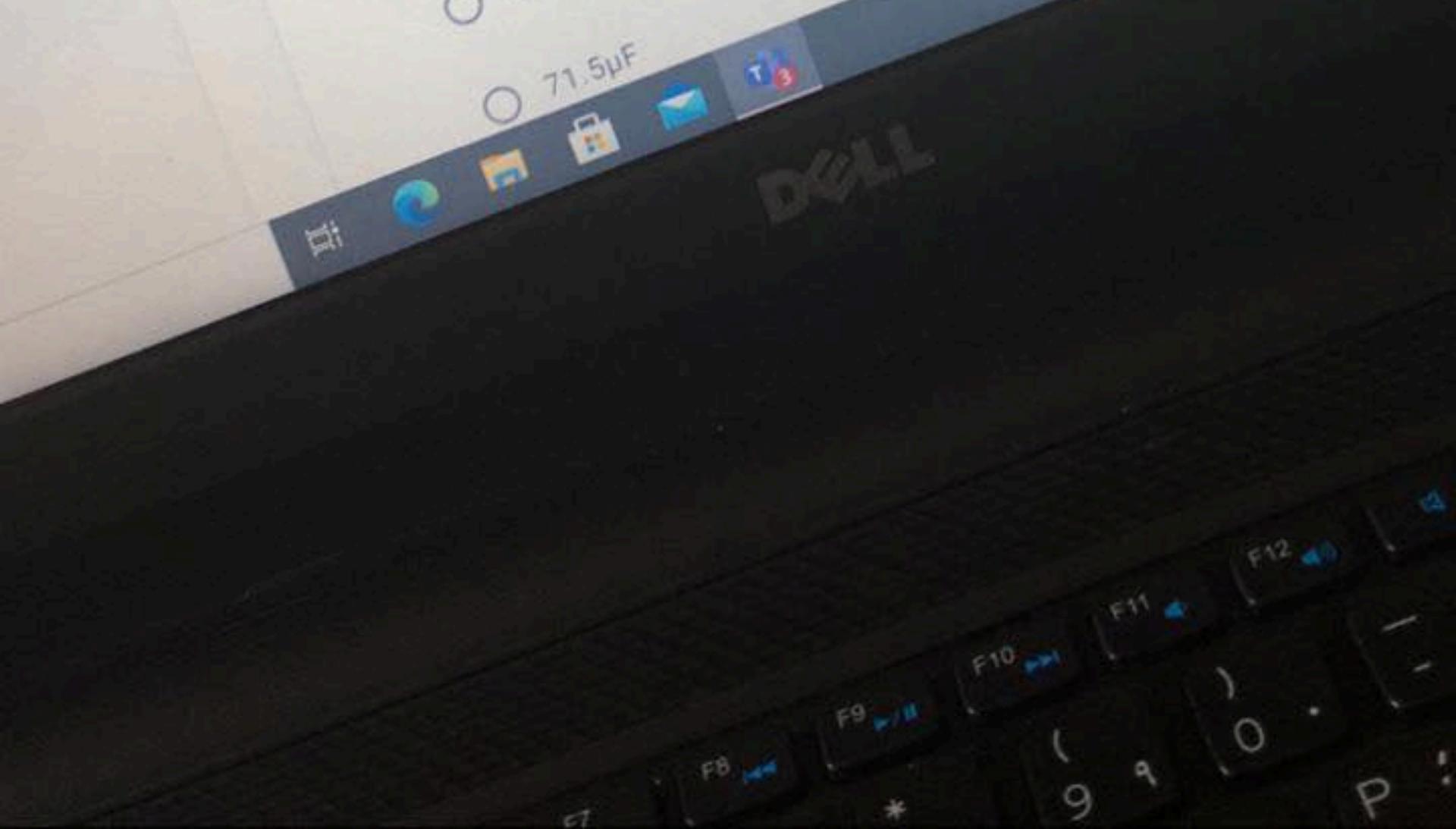
0.715mF

7.15pF

517μF

None of these

71.5μF

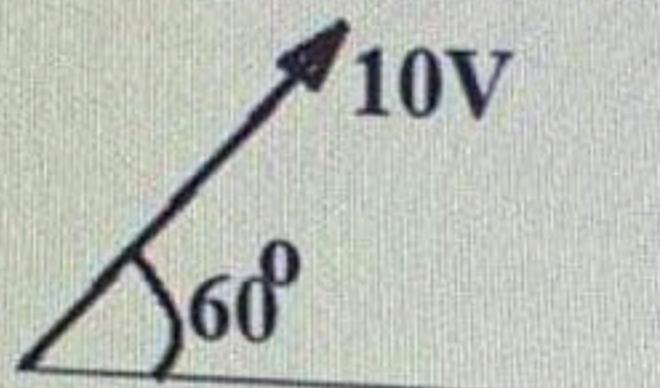




$$v(t) = \text{real}\{10e^{j(100\pi t - \frac{\pi}{3})}\}$$



at: $t = 0.0\text{ms}$ the phasor looks like



$$v(t = 0.021666\bar{6}) = 8.7\text{V}$$



$$v(t) = -10\sin(100\pi t + 30^\circ)$$



$$f = 100\text{Hz}$$

改善



$$v(t) = -10\sin(100\pi t - 150^\circ)$$



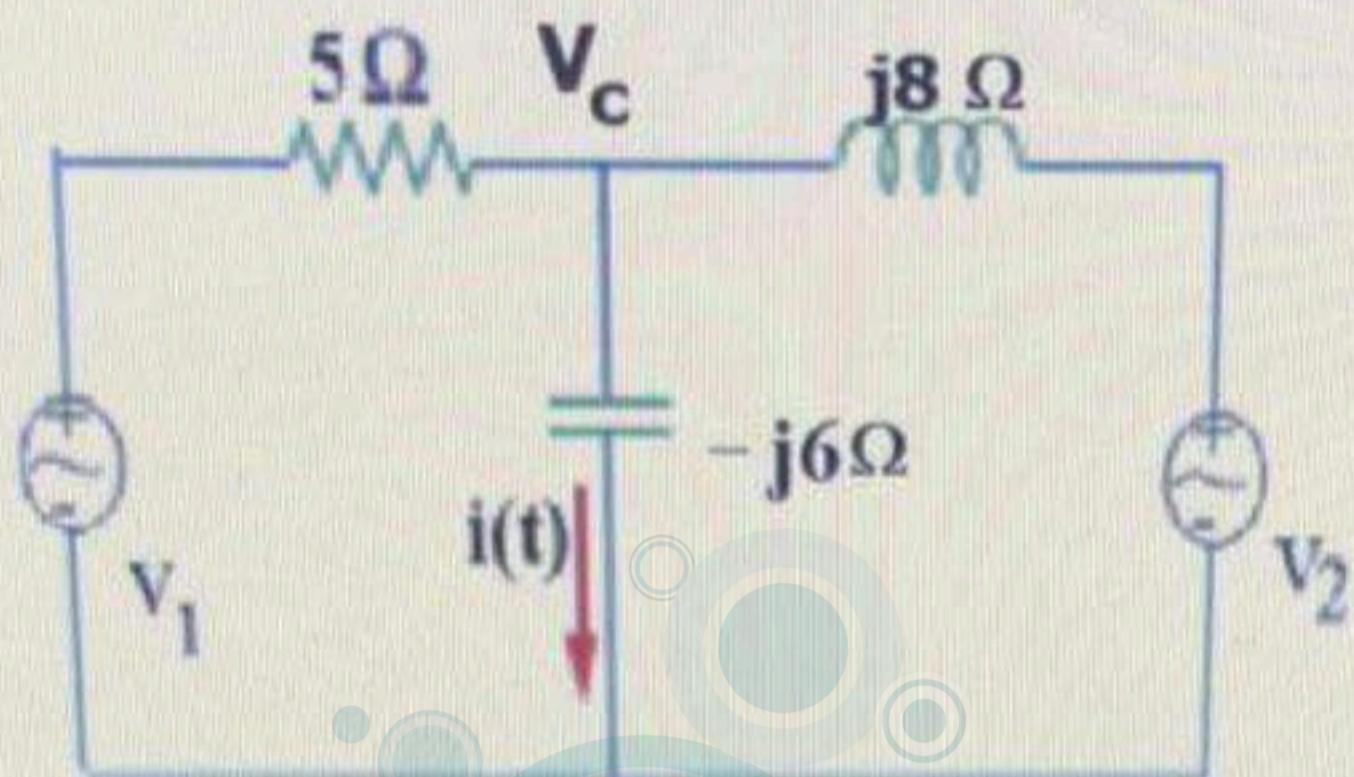
at: $t = 0.015\text{ms}$, the phasor represents as

DELL



Question 4/6 (5 p.)

Use any technique to find the $i(t)$, and V_C , if $V_1=10\angle 30^\circ$ and $V_2=15\angle 0^\circ$, and $f=50\text{Hz}$.



$$V_C = \frac{30\angle 30^\circ + 15\angle 0^\circ}{5 + j8}$$

改善

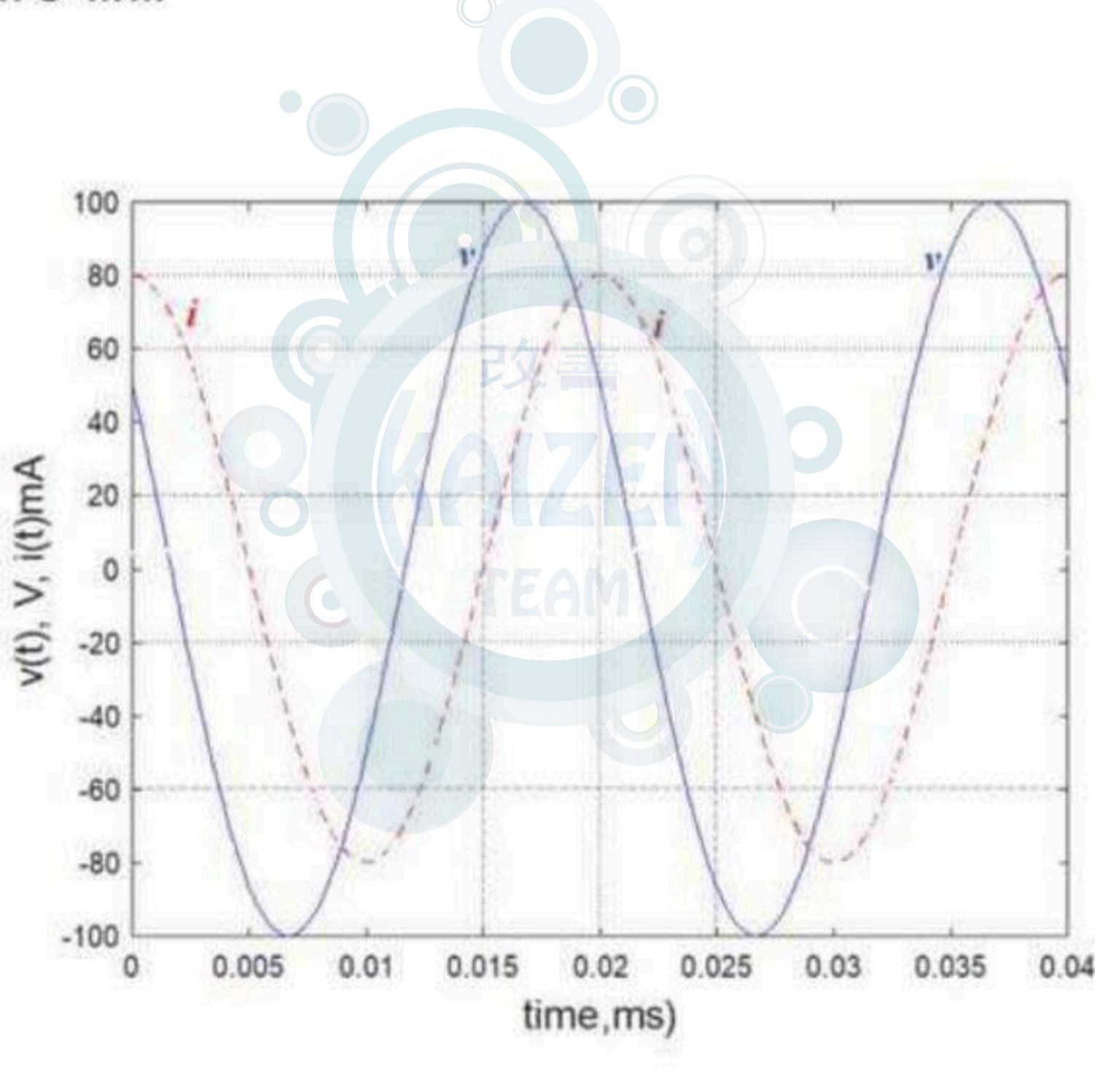
TEAM



Time left to complete the test: 0 h 11 min. 2 sec.

Question 5/6 (3 p.)

The voltage across an impedance and current flown through it are shown. The elements may have extracted in series are



None of these

$R = 0.625\Omega$, $L = 3.446\text{mH}$

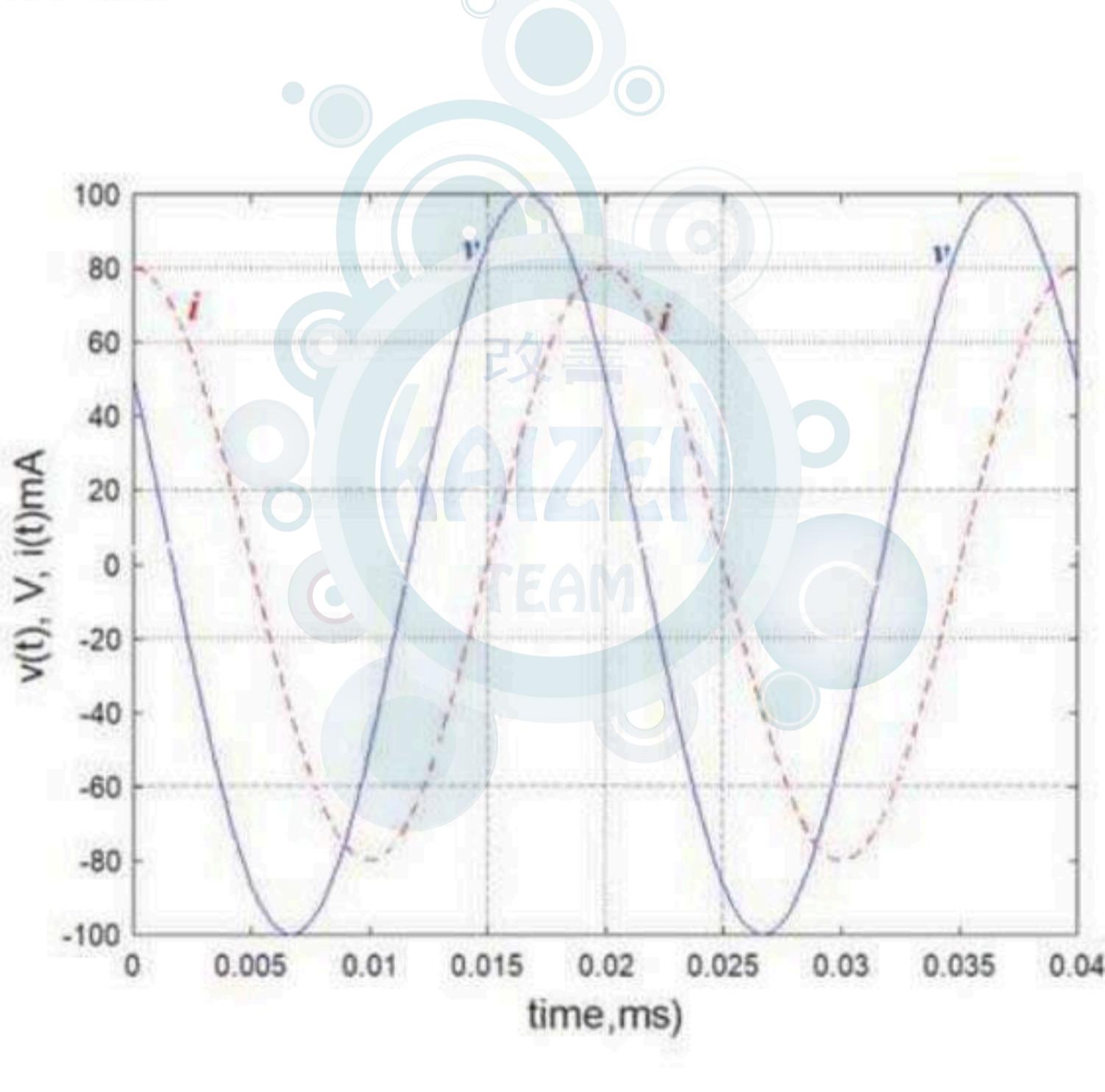
$R=0.625\Omega$, $C=34.458 \mu\text{F}$



Time left to complete the test: 0 h 11 min. 2 sec.

Question 5/6 (3 p.)

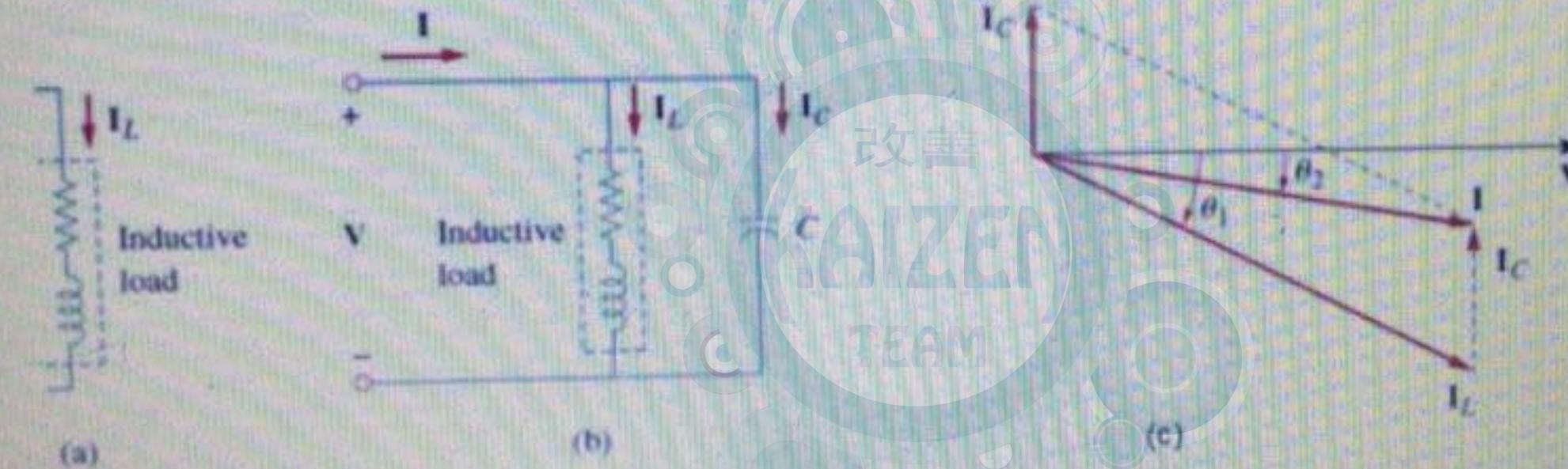
The voltage across an impedance and current flown through it are shown. The elements may have extracted in series are



- None of these
- $R = 0.625\Omega$, $L = 3.446\text{mH}$
- $R=0.625\Omega$, $C=34.458 \mu\text{F}$

Question 4/13

$V = 250\text{-V}$ (rms), 50-Hz, Inductive load $S = 5 \text{ kVA} \angle \theta$. Where: $\theta_1 = -27^\circ$, $\theta_2 = -11^\circ$.



Zoom image

Choose the correct answers.

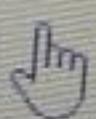
$I_L = 16 \angle -11^\circ \text{A}$

c o

Z₃

The current I_{bn} equals to

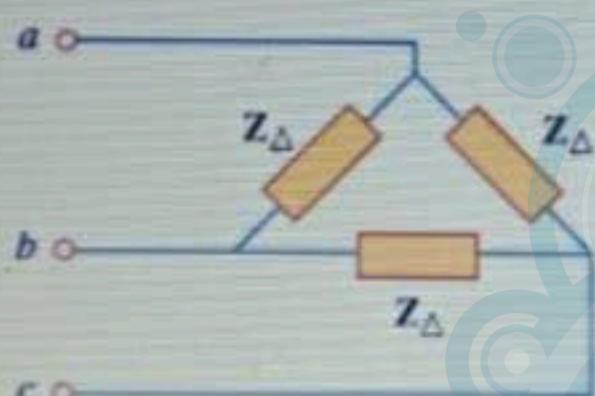
- 100∠ - 103.13°A
- 10∠136.87°A
- 100∠ - 136.87°A
- 100∠176.87°A
- 100∠83.13°A



SUBMIT ANSWER

Question 1/13

A three phase balanced voltages supply a Δ -connected balanced load. Given $V_{bc} = 416\angle 0^\circ \text{V(rms)}$, $Z_A = 7.2\angle 0^\circ \Omega$. Assuming positive sequence (abc).



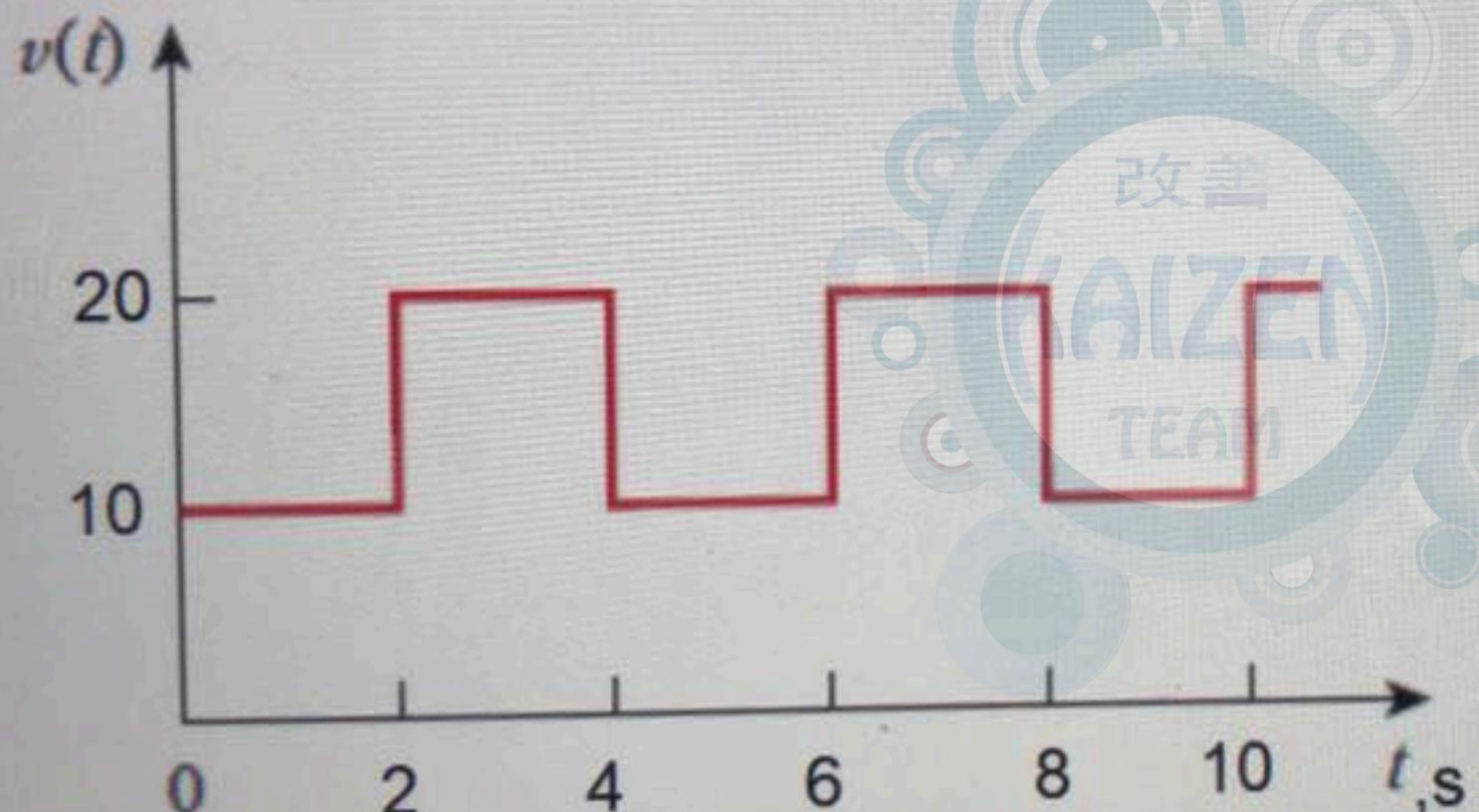
The line current I_b equals to ...

- $100\angle -30^\circ \text{A}$
- $57.73\angle 0^\circ \text{A}$
- $100\angle 0^\circ \text{A}$
- $57.73\angle 120^\circ \text{A}$
- $100\angle 90^\circ \text{A}$

SUBMIT ANSWER

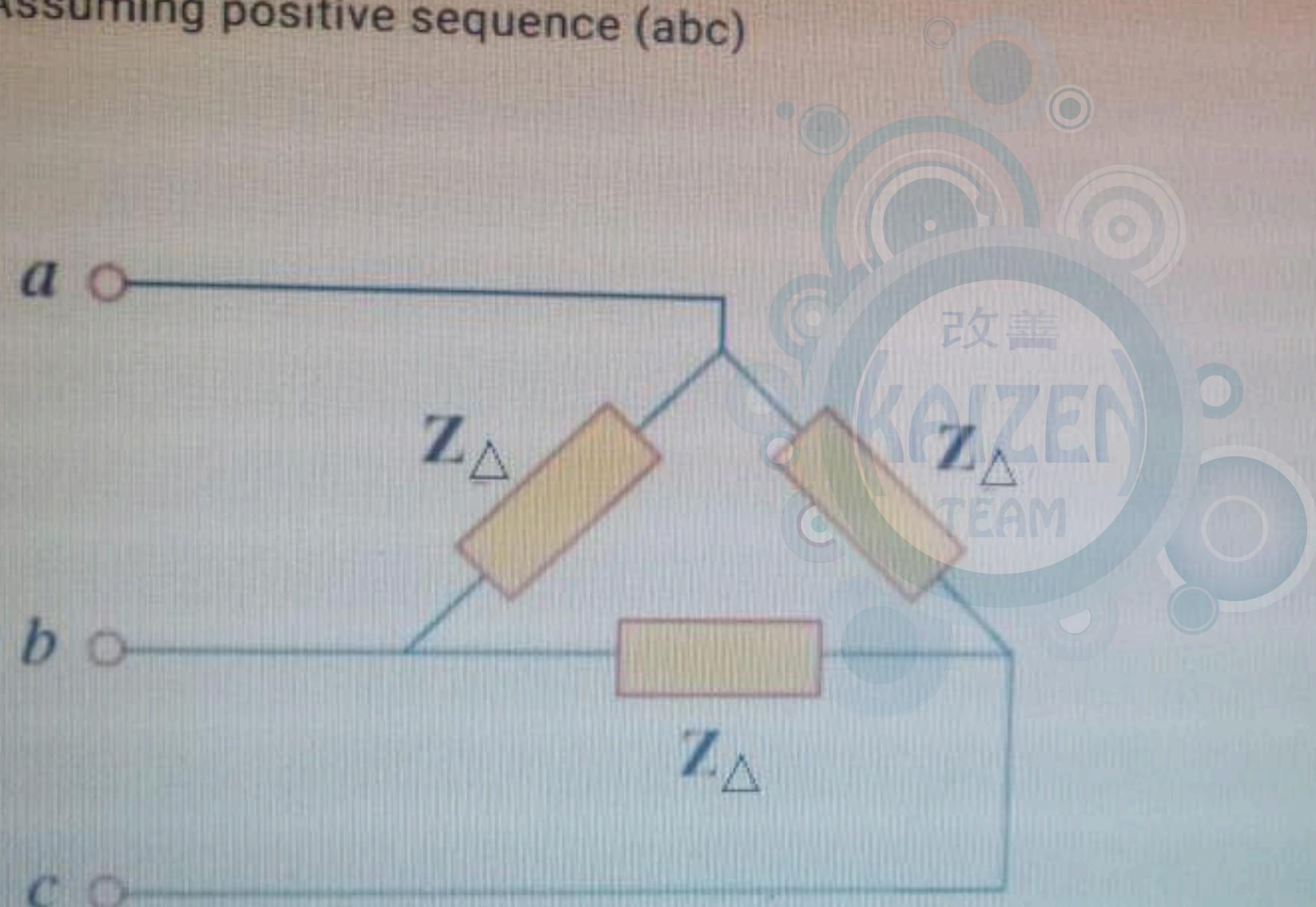
Time left to complete the test: 0 h 30 min. 49 sec.

Question 4/13



A three phase balanced voltages supply a Δ -connected balanced load. Given $V_{cb} = 240\angle 20^\circ \text{V(rms)}$,
 $Z_\Delta = 7.2\angle 36.87^\circ \Omega$.

Assuming positive sequence (abc)

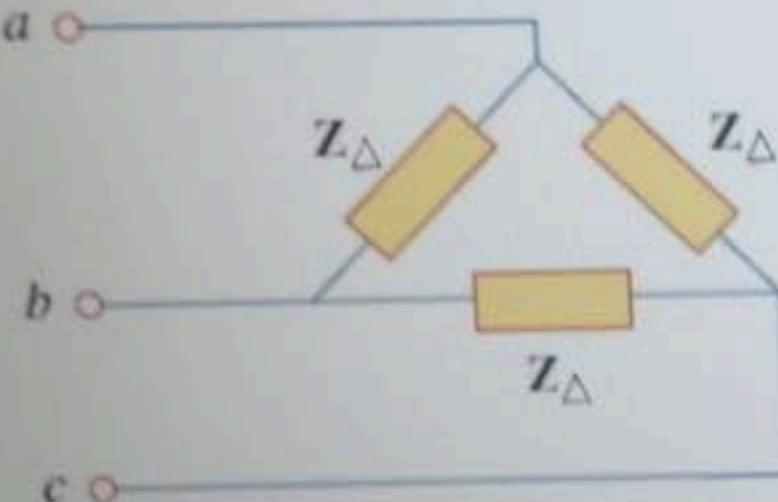


The voltage V_{ac} equals to

Question 4/13

A three phase balanced voltages supply a Δ -connected balanced load. Given $V_{cb} = 240\angle 20^\circ \text{V(rms)}$, $Z_\Delta = 7.2\angle 36.870^\circ \Omega$.

Assuming positive sequence (abc)



The voltage V_{ac} equals to

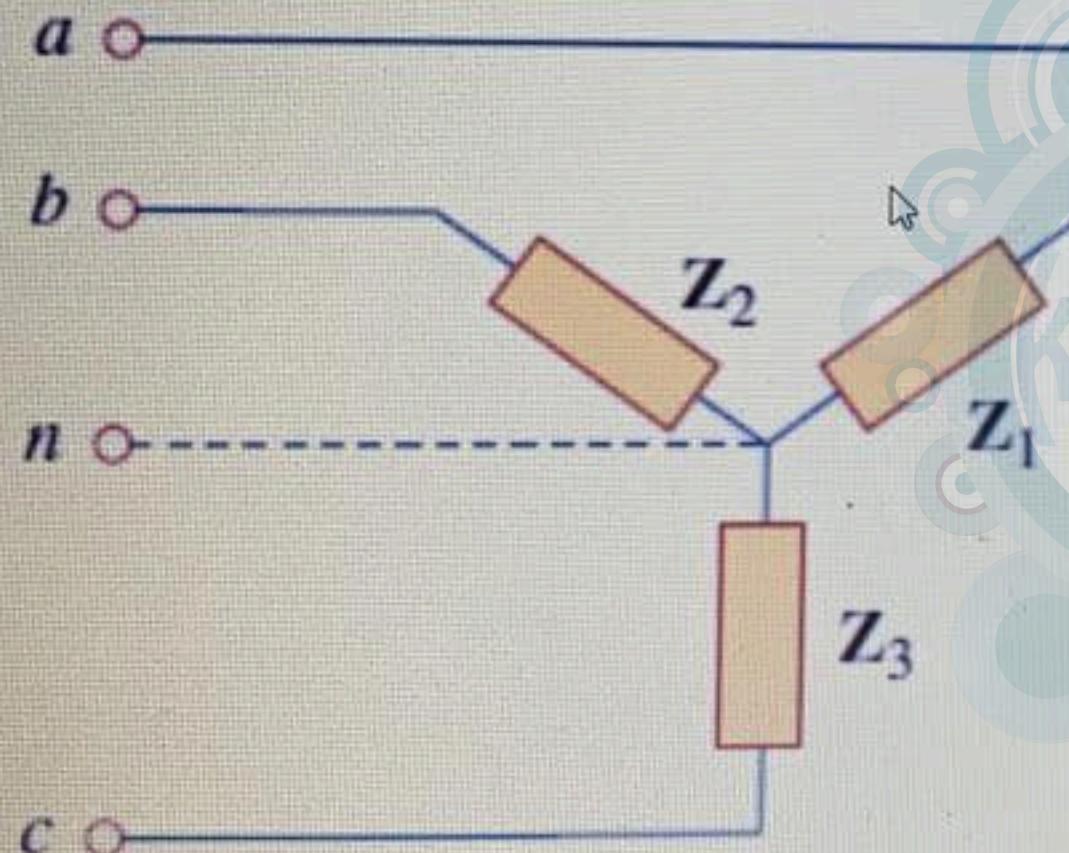
- $240\angle 130^\circ \text{V}$
- $240\angle -100^\circ \text{V}$
- $416\angle -70^\circ \text{V}$
- $416\angle 170^\circ \text{V}$



Question 1/13

A three phase balanced voltages supply a Y-connected balanced load. Given $V_{ab} = 416\angle 0^\circ \text{V(rms)}$, $Z_Y = 2.4\angle -30^\circ \Omega$.

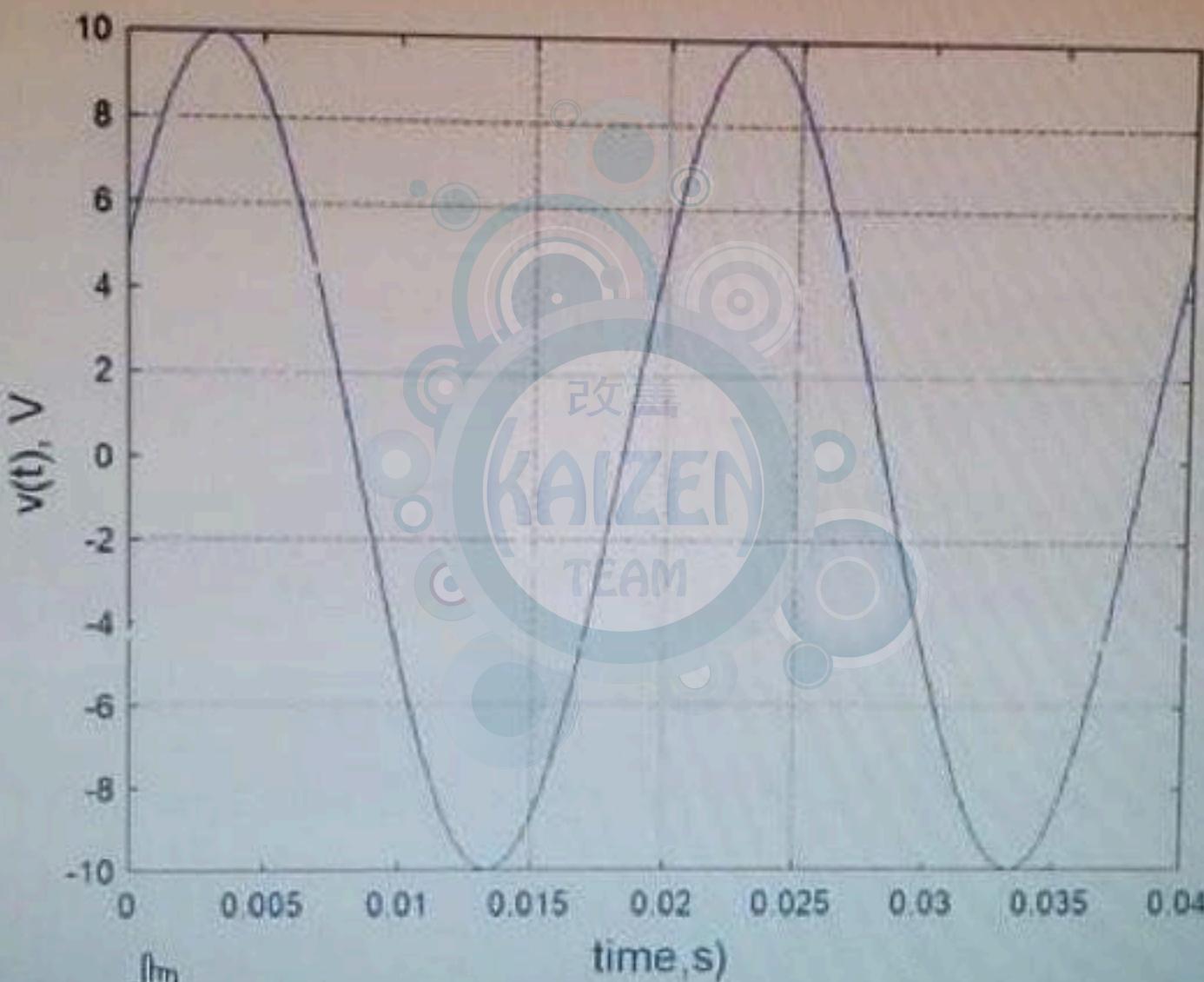
Assuming positive sequence (abc)



The complex power equals to

- 100 $\angle 30^\circ \text{kVA}$

For the signal shown, there are more than one correct answer. Choose them



Zoom image

Question 7/13

A load Z draws 12 kW at a power factor of 0.586 lagging from a 240-V rms sinusoidal source. The load impedance equal to

- 3.52 - j 2.120
- 3.52 + j 2.120
- 1.65 - j 2.28 Ω
- 1.65 + j 2.28 Ω

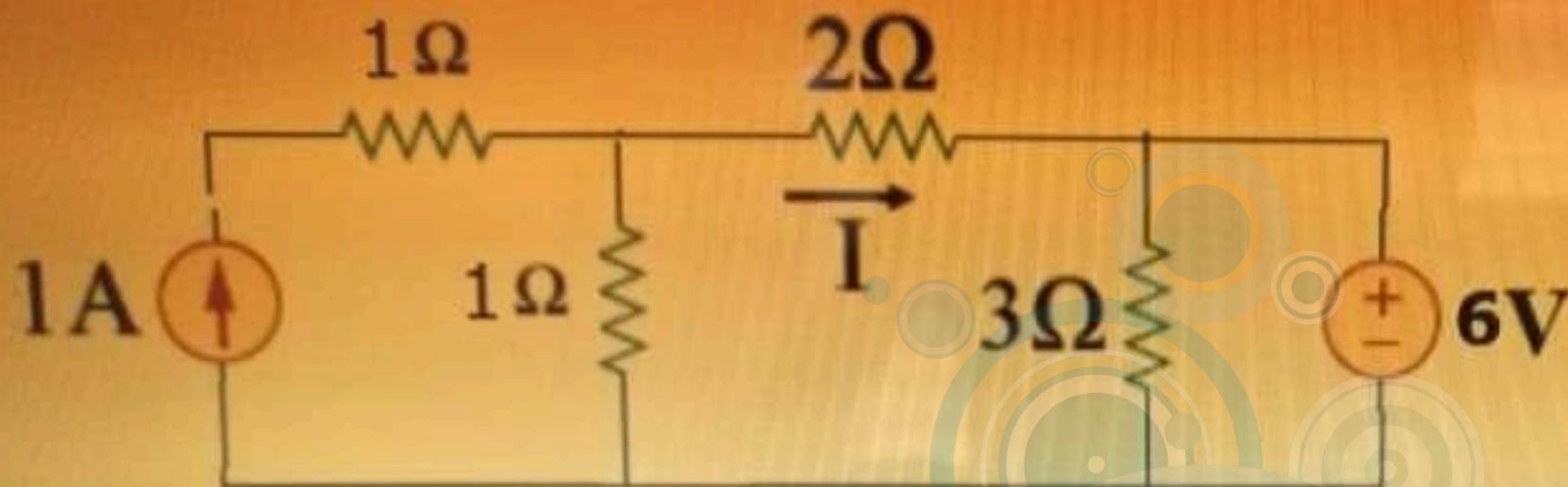
SUBMIT ANSWER



Activate Windows

12:51 PM

Using superposition theorem to find the contributions of the voltage source and the current source in the total value of the current given, respectively as:



- 2, 0.67
- 0.33, 0.33
- 1, 0.33
- 2, 0.67
- 0.67, 0.33



Activate Windows
Go to Settings

Type here to search



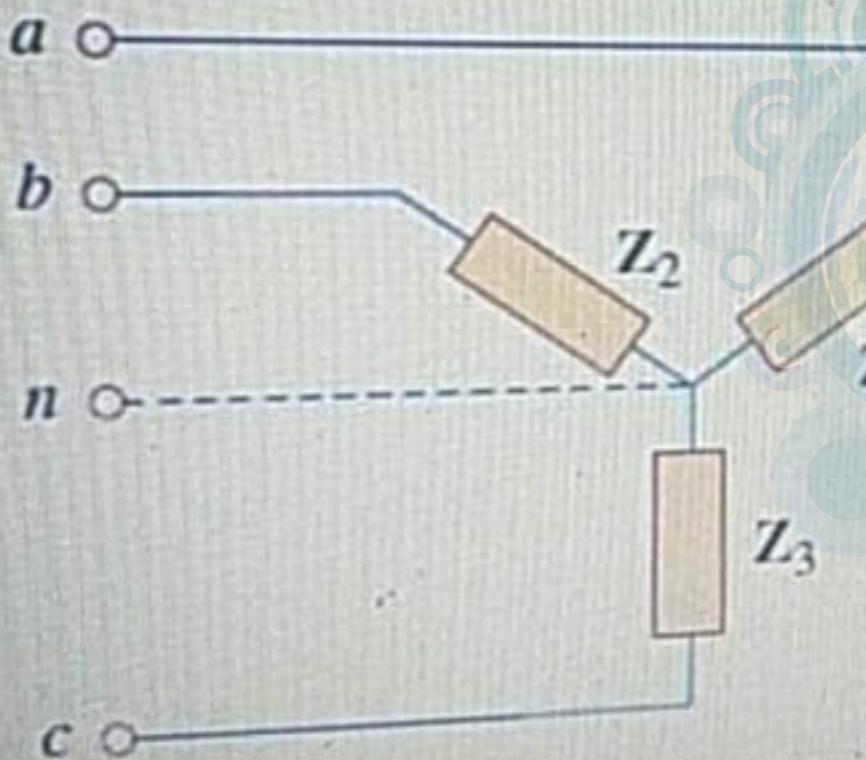
92°F Mostly sunny

DELL

Question 5/13

A three phase balanced voltages supply a Y-connected balanced load. Given $V_{cn} = 240\angle 20^\circ \text{V, (rms)}$, $Z_Y = 2.4\angle 36.87^\circ \Omega$.

Assuming positive sequence (abc).



The voltage V_{bc} equals to

Question 3/8

Use Nodal Analysis to find V_1 and V_2 respectively in V.



改善

KAIZEN

TEAM

Question 3/8

Use Nodal Analysis to find V_1 and V_2 respectively in V.



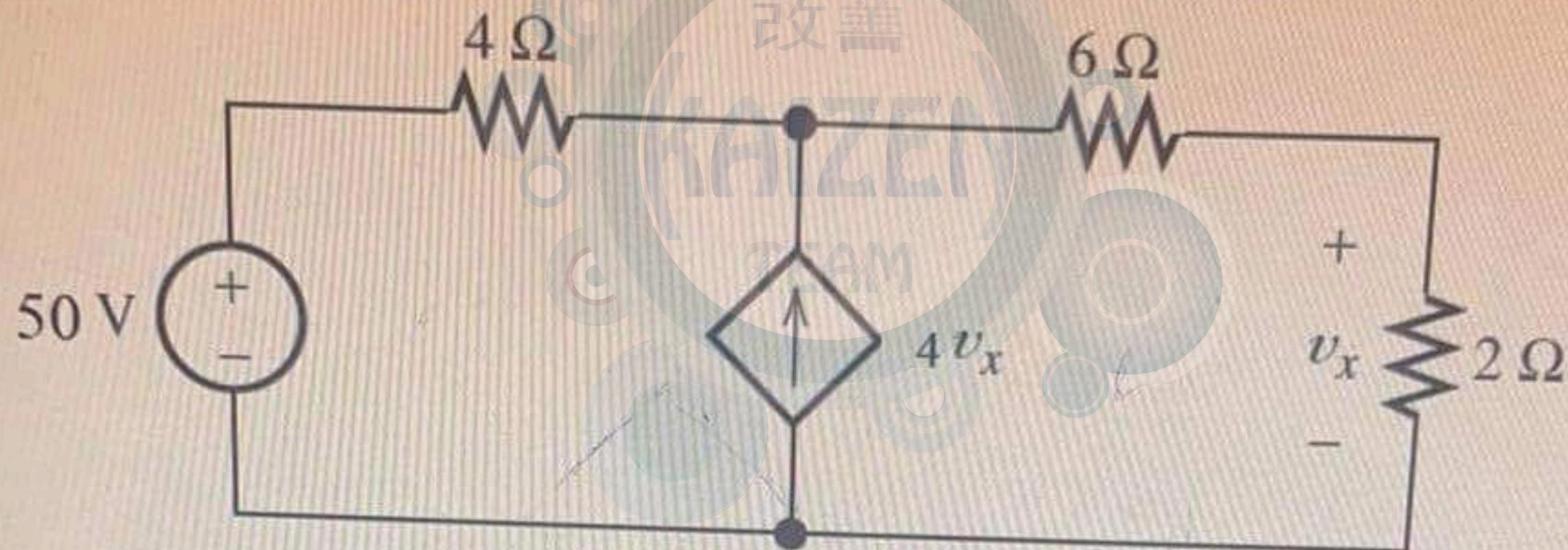
改善

KAIZEN

TEAM

Question 7/8

Find the power generated by the dependent source in (W).



128

16

160