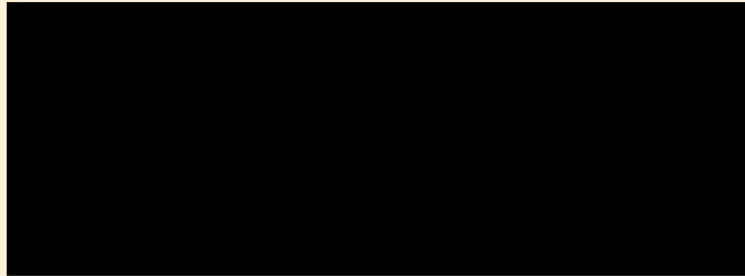


* Required

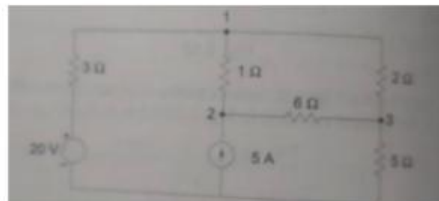


Two unequal voltage sources parallel connection should be avoided as it leads to circulating current among the sources. TRUE/FALSE? *

☒ TRUE

☐ FALSE

Use nodal analysis to find the power dissipated in the 6 ohm resistor for the given circuit. Write answer upto two decimal digit. *



3.29

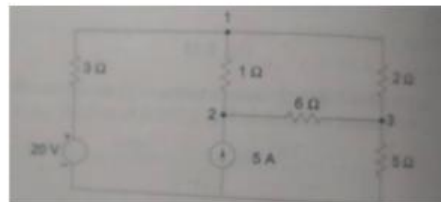
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1

Branch *

IIOT

Use nodal analysis to find the power dissipated in the 6 ohm resistor for the given circuit. Write answer upto two decimal digit. *



3.29

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Page 1 of 1

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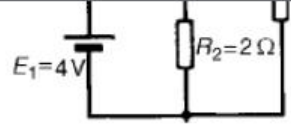
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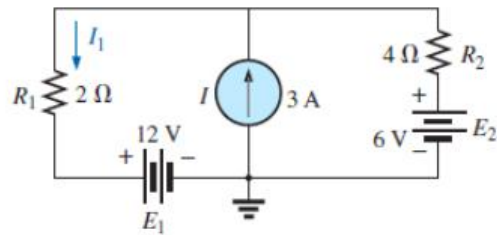


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6.37, 6.52, 0.15

Find the current through the 2 ohm resistor of the network shown in figure. Use superposition theorem as applicable. *

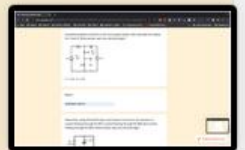


1

Branch *

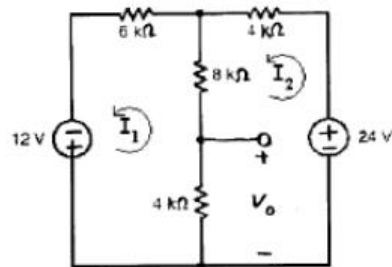
IIOT

Use nodal analysis to find the power dissipated in the 6 ohm resistor for the given



 Request edit access

Use Mesh analysis to find V_o in the circuit given below. Also calculate the values for I_1 and I_2 . Write answer upto two decimal digits. *



$$I_1 = 0.14, I_2 = 6.51$$

Name *

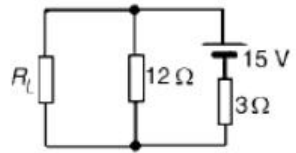
AVISHISHT GUPTA

Determine, using Kirchhoff's laws, each branch current for the network i.e. current flowing through R_1 (I_{R1}), Current flowing through R_2 (I_{R2}) and current flowing through R_3 (I_{R3}). Write answer upto two decimal digit *



 Request edit access

Find the value of the load resistor R_L shown in Figure that gives maximum power dissipation and determine the value of this power P . *



20.9

Name *

AVISHISHT GUPTA

Determine the peak value for a 240V mains supply. *

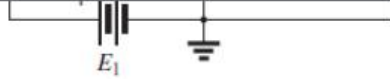
339.5

Branch *

IIOT

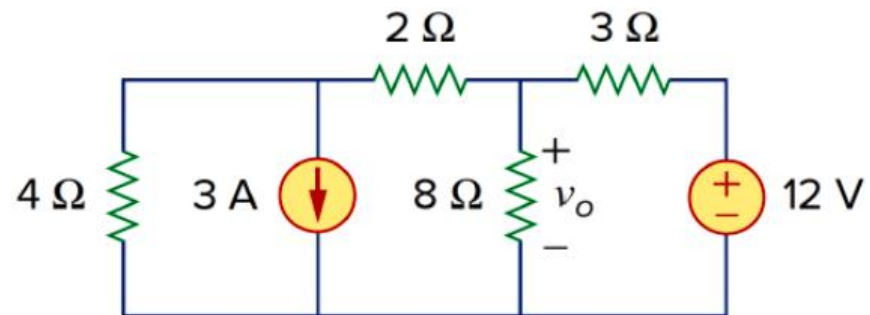


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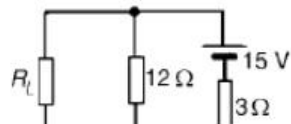
1

Use source transformation to find V_o in the circuit of below figure. *



3.2

Find the value of the load resistor R_L shown in Figure that gives maximum power dissipation and determine the value of this power P . *





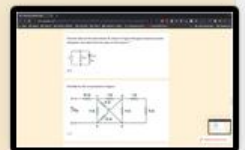
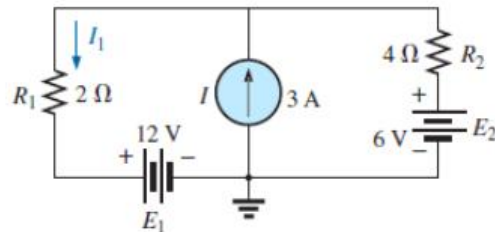
Superposition theorem can be applied only to circuits having *

- ☐ resistive elements
- ☐ nonlinear elements
- ☒ linear bilateral elements
- ☐ passive elements

Three equal resistance of 3 ohm are connected in star. The resistance in one of the arms in an equivalent delta circuit is ohms *

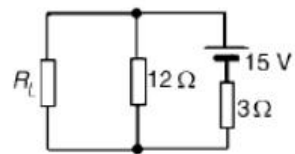
9

Find the current through the 2 ohm resistor of the network shown in figure. Use superposition theorem as applicable. *



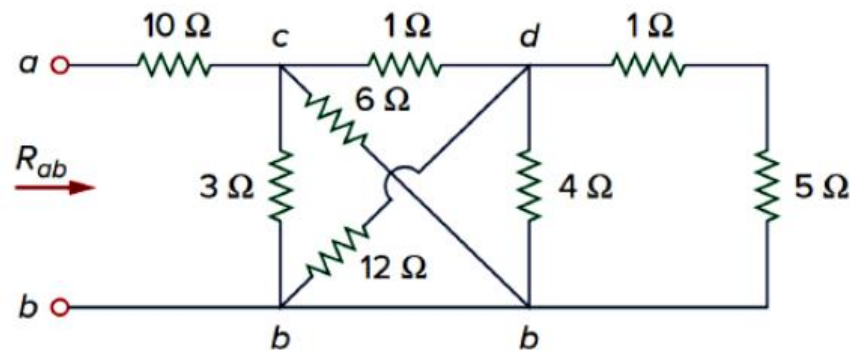
Request edit access

Find the value of the load resistor R_L shown in Figure that gives maximum power dissipation and determine the value of this power P . *

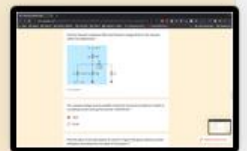


20.9

Find R_{ab} for the circuit shown in Figure. *

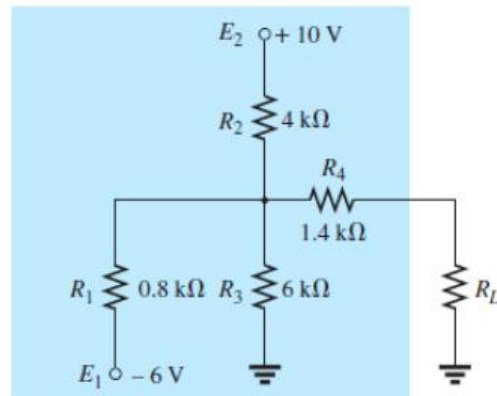


11.2



 Request edit access

Find the Thevenin resistance (R_{th}) and Thevenin voltage (E_{th}) for the network within the shaded area *



Your answer

Two unequal voltage sources parallel connection should be avoided as it leads to circulating current among the sources. TRUE/FALSE? *

☒ TRUE

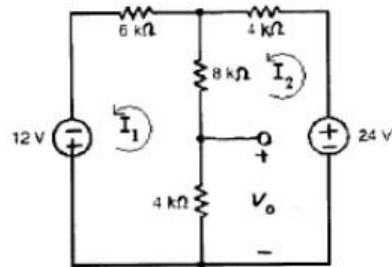
☐ FALSE

Find the value of the load resistor R_L shown in Figure that gives maximum power dissipation and determine the value of this power P . *



[Request edit access](#)

Use Mesh analysis to find V_o in the circuit given below. Also calculate the values for I_1 and I_2 . Write answer upto two decimal digits. *



$$I_1 = 0.14, I_2 = 6.51$$

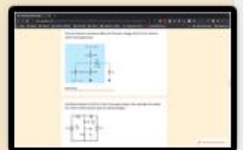
A sinusoidal current has peak value of 12 A. What is its average value? Write answer upto two decimal digits. *

$$7.64$$

Enrollment Number *

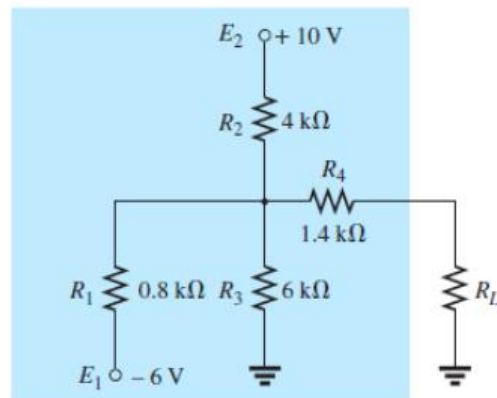
00419011721

Find the Thevenin resistance (R_{th}) and Thevenin voltage (E_{th}) for the network



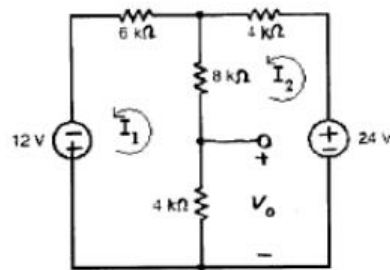
Request edit access

Find the Thevenin resistance (R_{th}) and Thevenin voltage (E_{th}) for the network within the shaded area *

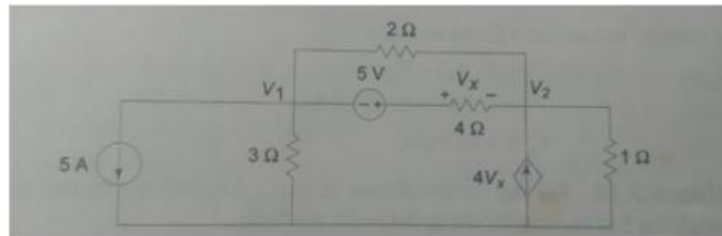


REPEATED|

Use Mesh analysis to find V_o in the circuit given below. Also calculate the values for I_1 and I_2 . Write answer upto two decimal digits. *

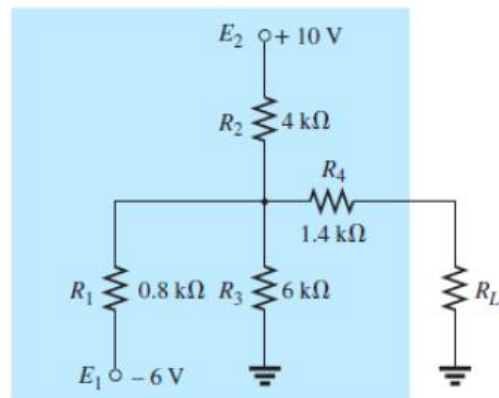


For the circuit shown in fig., find the voltage across the 4 ohm resistor by using nodal analysis. *

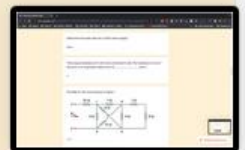


0.01

Find the Thevenin resistance (R_{th}) and Thevenin voltage (E_{th}) for the network within the shaded area *



Your answer



[Request edit access](#)

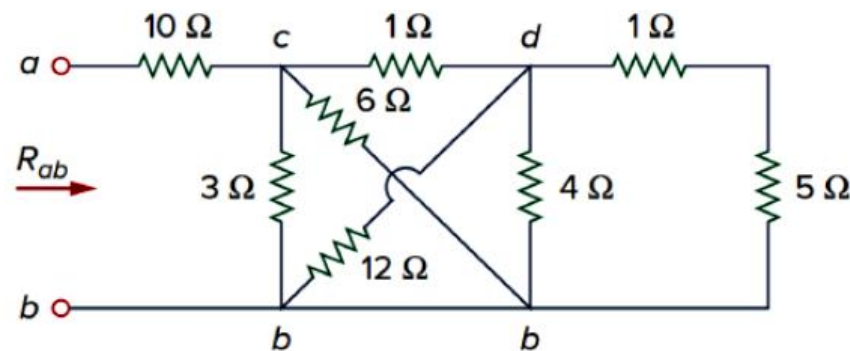
Determine the peak value for a 240V mains supply. *

339.5

Three equal resistance of 3 ohm are connected in star. The resistance in one of the arms in an equivalent delta circuit is ohms *

9

Find R_{ab} for the circuit shown in Figure. *

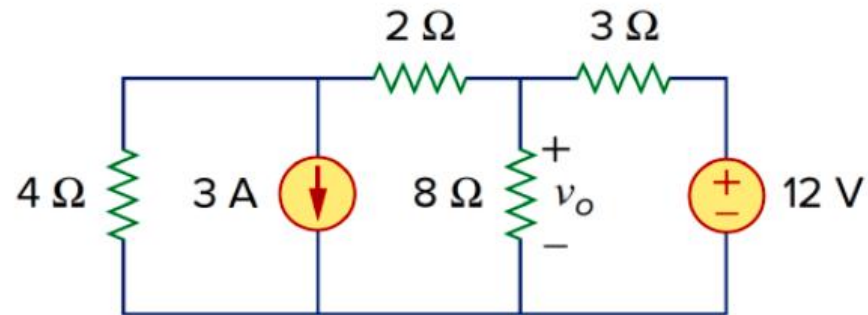


11.2



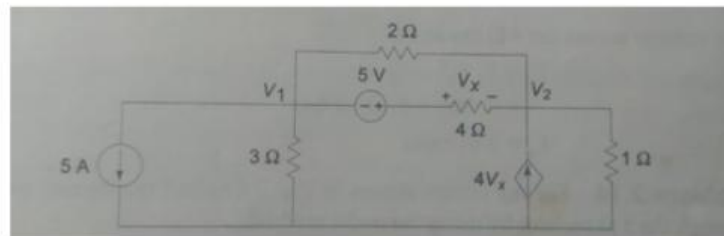
Request edit access

Use source transformation to find V_o in the circuit of below figure. *



3.2

For the circuit shown in fig., find the voltage across the $4\ \Omega$ resistor by using nodal analysis. *



0.01

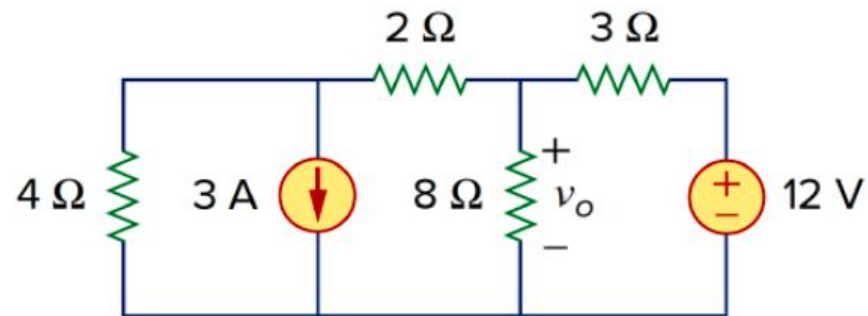


Batch *

IIOT B1A

An ideal voltage source should have *

- ☒ zero source resistance
- ☐ infinite source resistance
- ☐ small value of e.m.f
- ☐ large value of e.m.f

Use source transformation to find V_o in the circuit of below figure. *[Request edit access](#)

Enrollment Number *

00419011721

Superposition theorem can be applied only to circuits having *

- ☒ linear bilateral elements
- ☐ passive elements
- ☐ resistive elements
- ☐ nonlinear elements

An ideal voltage source should have *

- ☐ infinite source resistance
- ☐ large value of e.m.f
- ☐ small value of e.m.f
- ☒ zero source resistance

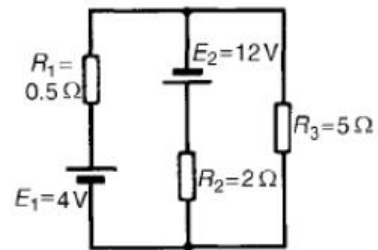


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A sinusoidal current has peak value of 12 A. What is its average value? Write answer upto two decimal digits. *

7.64

Determine, using Kirchhoff's laws, each branch current for the network i.e. current flowing through R_1 (I_{R1}), Current flowing through R_2 (I_{R2}) and current flowing through R_3 (I_{R3}). Write answer upto two decimal digit *



6.37, 6.52, 0.15

Batch *

IIOT B1



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