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Name RI 50 VI BOV RI = 4Q R2 : 40 13 : 6Q 60 V 20v VI 13 120 6Q V3 : v 40v 3a Q 20 lov 4a 13 - VT 2a VT IOQ 60 13 30v 12 — 12  
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- Solve circuit problems involving complex circuits.
- Describe the operation of fuses and circuit breakers.
- Describe how ammeters and voltmeters work.

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circuit problems episode 905 answers are a good way to achieve details about operating certain products. Many products that you buy can be obtained using instruction manuals. These user guides are clearly built to give step-by-step information about how you ought to go ahead in

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Name \_  $R_1 = 8$   $R_2 = 12$   $R_1 = 30$   $R_3 = 6$   $40v$   $R_2 = 30$   $R_3 = 5$   $3a$   $R_T =$  \_

$I_T$

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Circuit Problems, Ep.905 Name \_\_\_\_\_

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$T =$  \_\_\_\_\_  $I_T =$  \_\_\_\_\_  $V$

$T =$  \_\_\_\_\_  $V_1 =$  \_\_\_\_\_  $V$

$2 =$  \_\_\_\_\_  $V_3$

...Worksheet: Complex Circuit Problems, Ep.905 Name Season 2 Episode 905 | 30m 2s

Complex Circuits and Safety Devices: Students learn how to solve circuit problems involving complex circuits. The operation of fuses and circuit breakers are described.

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side 1 For each of the given circuits, calculate the equivalent resistance. Then, calculate the total current. Finally, calculate the individual currents and voltages for each resistor.

Circuit 1 R1 R2 R3

$V_{total} = 9\text{ V}$  R1  $3\ \Omega$  R2  $3\ \Omega$  R3  $3\ \Omega$

$I_{total} = 1\text{ A}$  R3  $3\ \Omega$  R1  $3\ \Omega$  R2  $3\ \Omega$

$R_{total} = 9\ \Omega$  Circuit 2

$V_{total} = 9\text{ V}$  R1 R2 R3 R4

R1 R2 R3 R4

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Worksheet: Parallel

Circuit Problems

Episode 904 Ncwn

Remember that in a

parallel circuit: the

current in the branches

of the circuit (is the

same, adds up). the

voltage drops across

each branch (is the

same, adds up to) the

total voltage. To

calculate total

resistance, (add, use

reciprocals).  $24\text{ V}$  eq eq 1

$z = (93\ 120\ 3\ 240\ \text{VI})\ 24\ z$

eq  $VIZ\ 4^{\text{th}}/\text{VI}$

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Author: Barbara Pfeffer

Subject: Complex

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V 12  $\Omega$  8  $\Omega$  8  $\Omega$  10  $\Omega$   
 $\Omega$  Complex circuit worksheet EAGLE Academy EDA Standing On the Shoulders of Mr. Ohm: Using Kirchhoff's Law for Complex Circuits. Ohm's Law is your golden ticket for calculating the voltage, current, or resistance in a simple series or parallel circuit, but what happens when your circuit is more complicated? You might be designing electronics that have both parallel and series resistance, and Ohm's Law starts to fall ... Kirchhoff's Law for Complex Circuits | EAGLE | Blog Q2: Draw a simplified circuit with only ONE series resistor Q3: Find the total equivalent resistance for all resistors in this circuit. Total Resistance is 56.7 W R 2 and R 3 are

parallel and must be added first. Solutions: Complex Circuits 10d-Electrostatics FR practice problems-ANSWERS.docx. Circuits MC. 11a-Circuits MC practice problems.docx. Circuits MC Key. 11c-Circuits MC practice problems-ANSWERS.docx. Circuits FR. 11b-Circuits FR practice problems.docx. Circuits FR Key. 11d-Circuits FR practice problems-ANSWERS.docx. Magnetism MC. 12a-Magnetism MC practice problems.doc ...PHYSICS || All Worksheets with Keys 21.8 Kirchhoff's Rules for Complex DC circuits Used in analyzing relatively more complex DC circuits, e.g., when multiple circuit loops exist 1. Junction rule 2. Loop rule. Junction Rule

Sum of currents entering any junction must equal the sum of the currents leaving that junction:  $I_1 = I$   
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 $T = \text{___} \quad I T = \text{___} \quad V$   
 $T = \text{___} \quad V 1 = \text{___} \quad V$   
 $2 = \text{___} \quad V 3 \dots$   
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Episode904 Ncwn  
 Remember that in a parallel circuit: the current in the branches of the circuit (is the same, adds up). the voltage drops across each branch (is the same, adds up to) the total voltage. To calculate total resistance, (add, use reciprocals).  
 $24V = I \cdot Z$   
 $I = \frac{24V}{Z}$   
 $Z = \frac{1}{\frac{1}{Z_1} + \frac{1}{Z_2}}$

### **Complex Circuit Problems Episode 905 Answers**

At the completion of this episode's lesson(s), you should be able to:

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 calculating the voltage,  
 current, or resistance  
 in a simple series or  
 parallel circuit, but  
 what happens when  
 your circuit is more  
 complicated? You  
 might be designing  
 electronics that have  
 both parallel and series  
 resistance, and Ohm's  
 Law starts to fall ...  
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Q2: Draw a simplified circuit with only ONE series resistor Q3: Find

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Used in analyzing relatively more complex DC circuits, e.g., when multiple circuit loops exist

1. Junction rule
2. Loop rule.

Junction Rule Sum of currents entering any junction must equal the sum of the currents leaving that junction:  $I_1 = I$

### Complex circuit worksheet

Complex Circuit Problems, Ep. 905 RI —  
 Name RI 50 VI  $\beta$ OV RI  
 $= 4Q R_2 : 40 13 : 6Q$   
 $60 V 20v VI 13 120 6Q$   
 $V_3 : v 40v 3a Q 20 lov$   
 $4a 13 - VT 2a VT IOQ$   
 $60 13 30v 12 - 12$   
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Complex circuit worksheet 1)

Determine the voltage and current in each resistor. a) b) 2)

Determine the power used in the circled resistor  $5 \Omega 15 \Omega 17 \Omega 25 \Omega 10 V 5 \Omega 15 \Omega 17 \Omega 25 \Omega 10 V 12 \Omega 8 \Omega 5 \Omega 15 \Omega 17 \Omega 25 \Omega 10 V 12 \Omega 8 \Omega 8 \Omega 10 \Omega$

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*Complex Circuit ...*

Circuit Worksheet

Answers side 1 For

each of the given circuits, calculate the equivalent resistance.

Then, calculate the total current. Finally, calculate the individual currents and voltages for each resistor.

Circuit 1 R1 R2 R3

$V_{total} R I V R_1 3 \Omega 1 3$

$V_{total} = 9 v R_2 3 \Omega 1 3$

$I_{total} = 1 R_3 3 \Omega 1 3$

$R_{total} = 9$  Circuit 2       $V_{total}$  R1 R2 R3 R I V ...

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