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(The current divides and divides again in an effort to follow the path of least resistance.) After that, it's a simple matter to calculate the voltage drops in each resistor using  $V = IR$  and the power dissipated using  $P = VI$ . No part of this problem is difficult by itself, but since

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the circuit is so complex we'll be quite busy for a little while.

## **Resistors in Circuits - Practice - The Physics Hypertextbook**

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Series Circuits Problems and Solutions ...  
Given the following series circuit, find:

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(a) the total resistance, (b) the total current, (c) the current through each resistor, (d) the voltage across each resistor, (e) the total power, (f) the power dissipated by each resistor!

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Problem 7 12 identical resistors are

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arranged and form a cube shown below. Each resistor has 18 Ohm of resistance. Find the total resistance between P and Q! Solution Using the shortcut for this problem  $R_{total} = \frac{5}{6} R$   $R_{total} = \frac{5}{6} (18) = 15 \text{ Ohm}$  Try This! 12 identical resistors are arranged and form a cube shown below. Each resistor has 36 Ohm ...



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## **Resistances Problems and Solutions**

Resistors in Series: Examples with Detailed Solutions Example 1 Find the current  $I$  passing through and the voltage across each of the resistors in the circuit below. The three resistor in series have a resistance  $R_{eq}$  given by the sum of the three resistances. Hence

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$$R_{eq} = 100 + 400 + 200 = 700 \Omega$$

## **Series and Parallel Resistors - Physics Problems with ...**

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Resistor Problems And Solutions (The current divides and divides again in an

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effort to follow the path of least resistance.) After that, it's a simple matter to calculate the voltage drops in each resistor using  $V = IR$  and the power dissipated using  $P = VI$ .

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the voltage drop across each resistor the power dissipated in each resistor A

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kitchen in North America has three appliances connected to a 120 V circuit with a 15 A circuit breaker: an 850 W coffee maker, a 1200 W microwave oven, and a 900 W toaster.

## **Resistors in Circuits - Problems - The Physics Hypertextbook**

When solving any combinational resistor

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circuit that is made up of resistors in series and parallel branches, the first step we need to take is to identify the simple series and parallel resistor branches and replace them with equivalent resistors.

## **Resistors in Series and Parallel Resistor Combinations**

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The current through  $2\Omega$  resistor is  $i_2$  i.e.,  $0.183\text{A}$  flowing anticlockwise in loop-2. Example: 9 Find the loop current  $i_1$ ,  $i_2$  and  $i_3$  in the network of figure 12 by mesh method. Solution:

**Mesh Analysis Example with Solution - Electronics Tutorials**  
Combination of Resistors Resistors can

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be combined in two ways; series and parallel. Combination of more than one resistor is called equivalent resistor. We first look at the resistors in series; Resistors in Series a. In this types of circuit, amount of currents passing through the resistors are equal and this current comes from the battery.  
 $i=i_1=i_2=i_3$  b.



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## **Combination of Resistors with Examples**

Question Title Circuit Problems III Two resistors are wired in series. The second resistor has twice the resistance as the first. Current passes through the combination. Compared to the current through the first resistor, the current

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through the second resistor is: A. Twice the magnitude B. The same C. Half the magnitude D. Quarter of the magnitude

### **Physics - University of British Columbia**

Problem: A  $60\text{-}\Omega$  resistor is connected in parallel with one of  $40\ \Omega$ , as shown in Figure 7. Determine the value of the

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total combined resistance of the two using the product over sum formula. Figure 7 Circuit for Example 4. Solution: The product over sum formula works best for two resistors in parallel.

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analysis. Parallel conductance.  
Simplifying resistor networks. Up Next.

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**Series and parallel resistors  
(practice) | Khan Academy**

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1 Fall 2012 Physics 121 Practice Problem  
Solutions 07 Current and Resistance  
Contents: 121P07 - 1Q, 4Q, 1P, 7P, 12P,  
19P, 25P, 31P, 35P, 38P • Circuits and  
Currents • Electric Current  $i$  • Current  
Density  $J$  • Drift Speed • Resistance,  
Resistivity, Conductivity • Ohm's Law •  
Power in Electric Circuits • Examples •  
Kirchoff's Rules applied to Circuits ...

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## **Physics 121 Practice Problem Solutions 07 Current and ...**

Electric Current Exam1 and Problem Solutions 1. Voltage vs. current graph of a conductor is given below. Find the change in the resistance of conductor in first and third intervals. We use ohm's law to find relation between  $V$ ,  $I$  and  $R$ .

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Interval I: Since potential and current increase linearly, resistance of the conductor becomes constant.

## **Electric Current Exam1 and Problem Solutions**

Replace series or parallel resistors with their equivalent resistor. Continue, moving left until a single equivalent



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resistor represents the entire resistor network. The location in question is the input voltage source, so we start the simplification process way over on the far right, and work our way toward the source.

**Simplifying resistor networks  
(article) | Khan Academy**

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Electrical Engineering Q&A Library  
Problem 3: Now suppose one adds a resistor,  $R$ , to the circuit as shown on the right. Assume that  $V_s = 0$  V,  $V_{Dp} = 1$  V and  $R = 1$  k $\Omega$ . Assume that the MOSFET has  $V_T = 0.5$  V and can be assumed to be either OFF or a switched resistor  $R_{on}$  with an on resistance of 100  $\Omega$ . Solve for  $V_{OUT}$ .

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when (a)  $V_G$  (b)  $V_G = 1.2 \text{ V}$ .

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