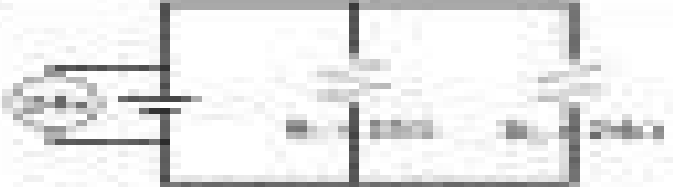
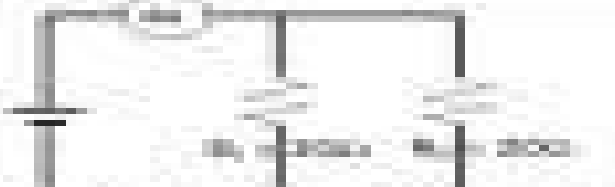
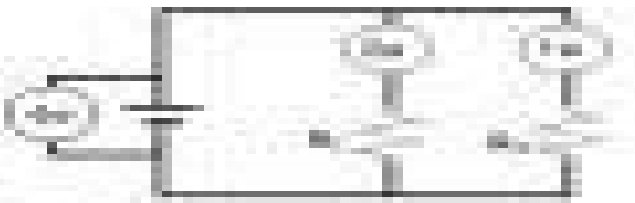
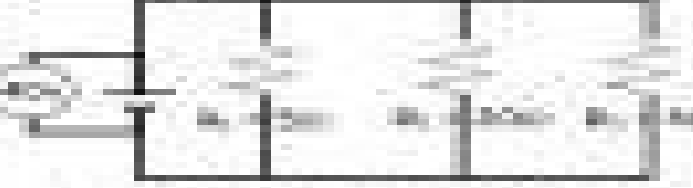
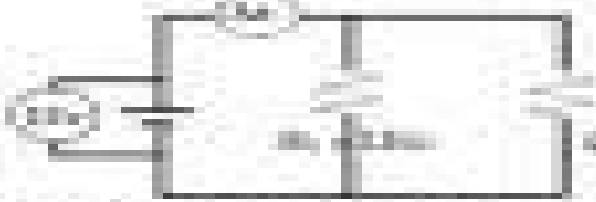
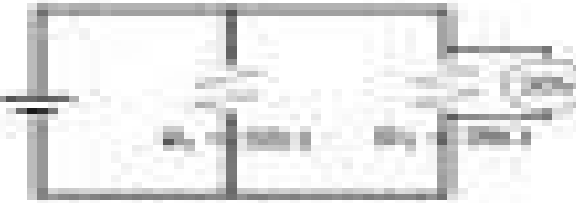


Remember that in a parallel circuit:

- the current is the sum of all the currents (a the current "splits up")
- the voltage difference across each branch is the same, adds up to the total voltage
- the voltage is the same across each (add up the voltages)

 $R_1 = 10 \Omega$ $R_2 = 20 \Omega$ $I_{\text{Total}} = 2 \text{ A}$ $V_1 = 24 \text{ V}$ $V_2 = 24 \text{ V}$ $I_1 = ? \text{ A}$ $I_2 = ? \text{ A}$	 $R_1 = 20 \Omega$ $R_2 = 20 \Omega$ $I_{\text{Total}} = 3 \text{ A}$ $V_1 = 40 \text{ V}$ $V_2 = 40 \text{ V}$ $I_1 = ? \text{ A}$ $I_2 = ? \text{ A}$
 $R_1 = 10 \Omega$ $R_2 = 20 \Omega$ $I_{\text{Total}} = 2 \text{ A}$ $V_1 = 24 \text{ V}$ $V_2 = 24 \text{ V}$ $I_1 = ? \text{ A}$ $I_2 = ? \text{ A}$ $I_3 = ? \text{ A}$	 $R_1 = 10 \Omega$ $R_2 = 20 \Omega$ $R_3 = 30 \Omega$ $I_{\text{Total}} = 2 \text{ A}$ $V_1 = 20 \text{ V}$ $V_2 = 20 \text{ V}$ $V_3 = 20 \text{ V}$ $I_1 = ? \text{ A}$ $I_2 = ? \text{ A}$ $I_3 = ? \text{ A}$
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Electric Circuit Problems Frank Atkinson Benson, 1967 *Electric Circuit Problems with Solutions* Benson, 1973-01-01

Series-parallel Circuits, 1984 **Principles of Electric Circuits** Thomas L. Floyd, 2003 This book provides an exceptionally clear introduction to DC AC circuits supported by superior exercises examples and illustrations and an emphasis on troubleshooting and applications It features an exciting full color format which uses color to enhance the instructional value of photographs illustrations tables charts and graphs Throughout the book's coverage the use of mathematics is limited to only those concepts that are needed for understanding Floyd's acclaimed troubleshooting emphasis as always provides learners with the problem solving experience they need for a successful career in electronics Chapter topics cover components quantities and units voltage current and resistance Ohm's Law energy and power series circuits parallel circuits series parallel circuits circuit theorems and conversions branch mesh and node analysis magnetism and electromagnetism an introduction to alternating current and voltage phasors and complex numbers capacitors inductors transformers RC circuits RL circuits RLC circuits and resonance basic filters circuit theorems in AC analysis pulse response of reactive circuits and polyphase systems in power applications For electronics technicians electronics teachers and electronics hobbyists *Basic Electricity and DC Circuits* Ralph A. Oliva, Charles Wilfred Dale, 1979 **Electric Circuits**

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Benson,1967 Electronics Fundamentals Thomas L. Floyd,2004 This text provides optional computer analysis exercises in selected examples troubleshooting sections applications assignments It uses frank explanations limits maths to only what s needed for understanding electric circuits fundamentals

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