

Download File PDF V R And I In Parallel Circuits Answer Key

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so many fake sites. this is the first one which worked! Many thanks

The image shows a page from a technical manual or textbook. The title is "V, R, and I in Parallel Circuits". It contains several sections with diagrams and text:

- Parallel Circuits:** A diagram shows a battery connected to two resistors in parallel. Text explains that parallel resistors have independent paths and that the total current is the sum of currents through each resistor.
- 1) Find V_T :** A diagram shows a parallel circuit with a 12V battery and two resistors (10Ω and 20Ω). The text states that the voltage across each resistor is equal to the source voltage, so $V_T = 12V$.
- 2) Find I in each branch:** A diagram shows the same parallel circuit. The text explains that the current through each resistor is found using Ohm's Law ($I = V/R$). For the 10Ω resistor, $I_1 = 12V / 10Ω = 1.2A$. For the 20Ω resistor, $I_2 = 12V / 20Ω = 0.6A$.
- 3) Find Total Resistance (R_T):** The text explains that the total resistance is found by adding the reciprocals of the individual resistances: $1/R_T = 1/10 + 1/20 = 3/20$, so $R_T = 20/3 ≈ 6.67Ω$.
- 4) Find Total Current (I_T):** The text explains that the total current is found by adding the currents through each resistor: $I_T = I_1 + I_2 = 1.2A + 0.6A = 1.8A$.
- Electrical Power:** A section explaining that power is calculated as $P = VI$ and that the total power is the sum of the power dissipated by each resistor.
- Fuses:** A section explaining that fuses are used to protect circuits from excessive current and that they are placed in series with the load.

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