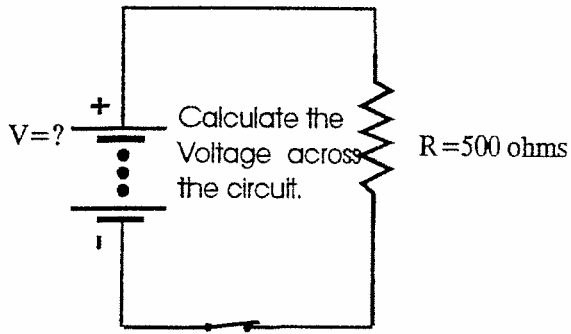


The Series Circuit Assignment.

1) Draw a circuit with a battery, switch, and resistor. The resistor is 2200 ohms and the current flowing through the circuit is 1A. Find the voltage connected across the circuit?

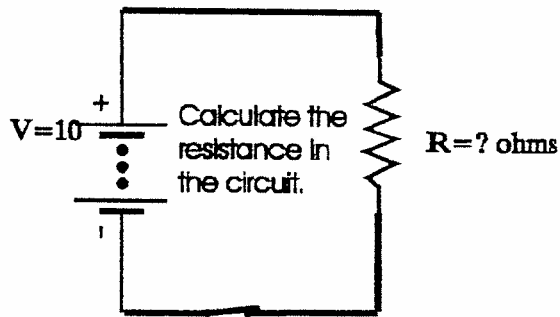
Calculate the missing quantity in the following circuit.

$I = .25A$

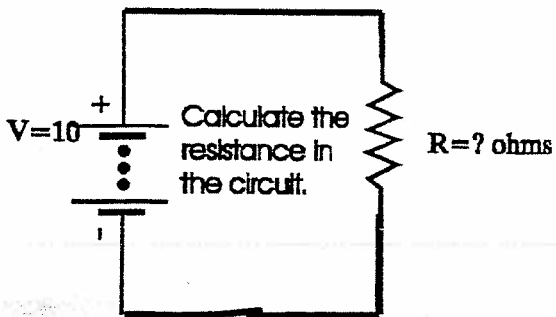


3)

$I = .2A$

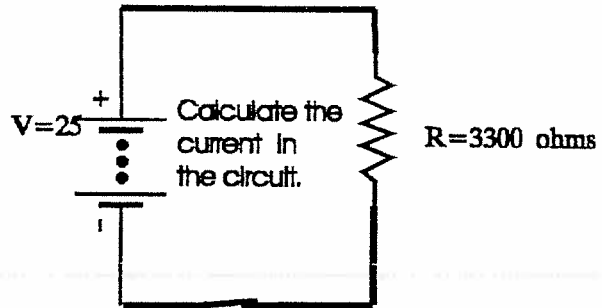


$I = .2A$

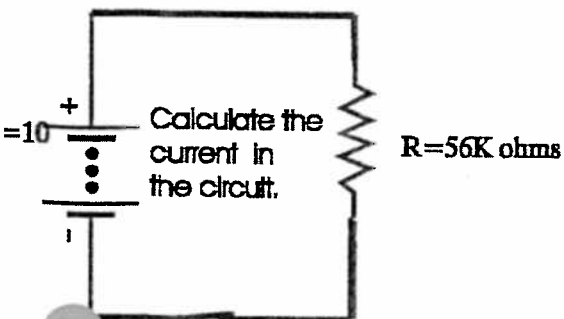


5)

$I = ?A$

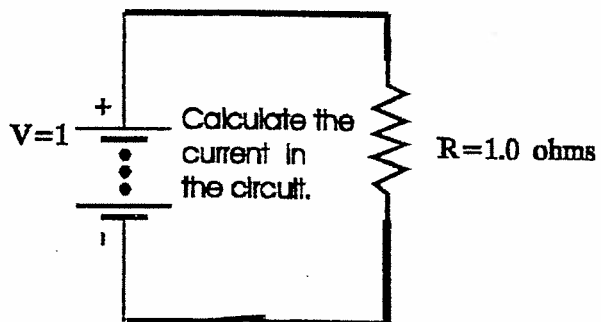


$I = ?A$



7)

$I = ?A$



The Parallel Circuit Assignment.

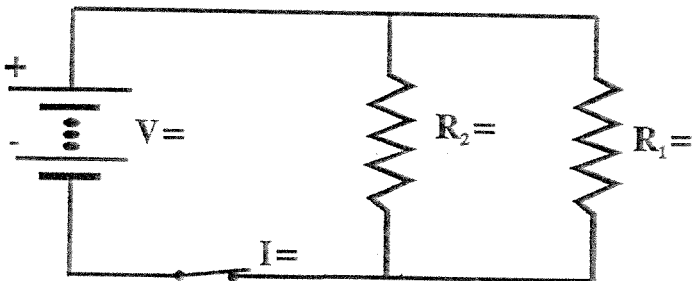
1) Draw a circuit with a 6 volt battery with two resistors. The two resistors are in parallel; $R_1=1500\text{ohms}$, $R_2=200\text{ohms}$.

Using the circuit in question 2 calculate the missing quantity.

2) $V=20\text{V}$, $R_1=1000\text{ohms}$, $R_2=2000\text{ohms}$

$I_{R1} = \underline{\hspace{2cm}}$ $I_{R2} = \underline{\hspace{2cm}}$

$I_T = \underline{\hspace{2cm}}$



3) $V=35\text{V}$, $R_1=500\text{ohms}$, $R_2=100\text{ohms}$

$I_{R1} = \underline{\hspace{2cm}}$ $I_{R2} = \underline{\hspace{2cm}}$

$I_T = \underline{\hspace{2cm}}$

4) $V = \underline{\hspace{2cm}}$, $R_1=500\text{ohms}$, $R_2=1100\text{ohms}$

$I_{R1}=10\text{A}$ $I_{R2} = \underline{\hspace{2cm}}$ $I_T = \underline{\hspace{2cm}}$

5) $V = \underline{\hspace{2cm}}$, $R_1=500\text{ohms}$, $R_2 = \underline{\hspace{2cm}}$

$I_{R1}=4\text{A}$ $I_{R2} = \underline{\hspace{2cm}}$ $I_T = \underline{\hspace{2cm}}$

6) $R_1=500\text{ohms}$, $R_2=2000\text{ohms}$ $R_T = \underline{\hspace{2cm}}$

7) $R_1=200\text{ohms}$, $R_2=5000\text{ohms}$ $R_T = \underline{\hspace{2cm}}$