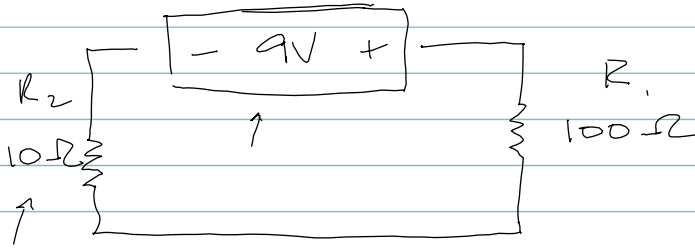


CRAFTOE

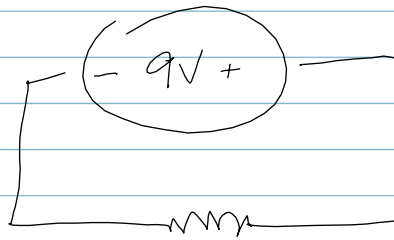
V. DIVIDERS

SAT 28TH



① $V = IR$ VOLTAGE = CURRENT \times RESISTANCE

② EQUIVALENT CIRCUIT



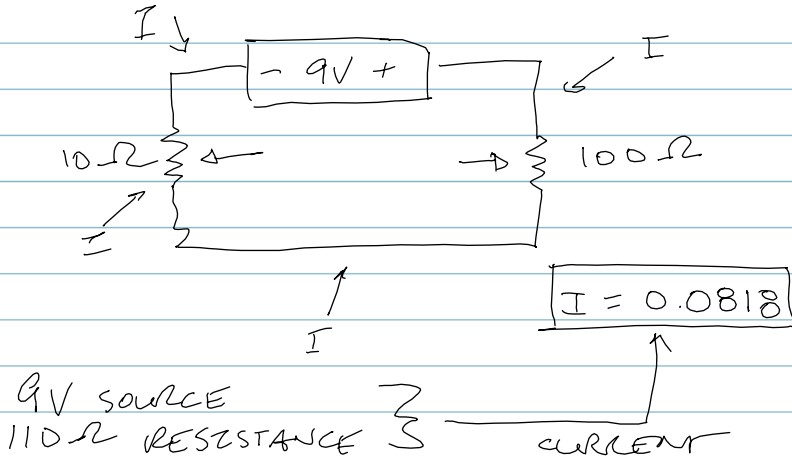
$$R_1 + R_2 \\ 110\Omega$$

$V = \text{VOLTS}$
 $I = \text{AMPS}$
 $R = \text{OHMS}$

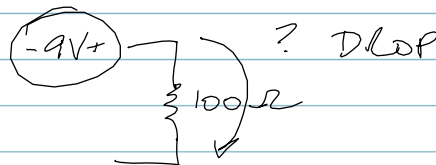
$$\frac{V}{R} = \frac{I}{R}$$
$$\frac{9V}{10\Omega} = \frac{I}{110\Omega}$$

$$\frac{V}{R} = I \quad \frac{9}{110} = \boxed{0.0818 A}$$

③ CURRENT IS CONSTANT EVERYWHERE
 IN A SEQUENTIAL CIRCUIT

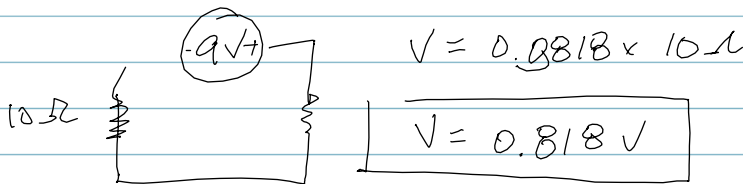


STEP 2 CALCULATE VOLTAGE DROPS



$$V = 0.0818 \times 100\Omega$$

$$V = 8.18 \text{ VOLT DROP ACROSS } 100\Omega \text{ RESISTOR}$$



TOTAL DROP

$$\Delta V_{R_1} = 8.18$$

$$+ \Delta V_{R_2} = .818$$

$$\approx 8.998 \approx 9V$$

