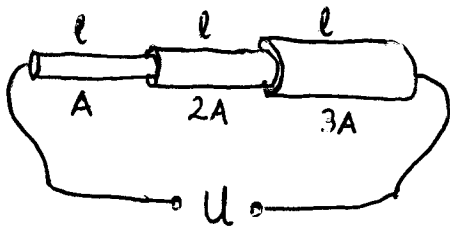


20.)  $U=110V$   $A, 2A, 3A$   $U_1=?$   $U_2=?$   $U_3=?$

A:



$$R = \rho \frac{l}{A}$$

Series:  $\sum U_i = U$

$$\frac{U_i}{U_j} = \frac{R_i}{R_j}$$

$$I_i = I_j = I$$

$$R_e = \sum R_i$$

$$U_1 + U_2 + U_3 = U$$

$$U_1 : U_2 : U_3 = R_1 : R_2 : R_3 = \rho \frac{l}{A} : \rho \frac{l}{2A} : \rho \frac{l}{3A} = \dots$$

$U_1, U_2, U_3$

B:

$$I = \frac{U}{R_e} \quad R_e = R_1 + R_2 + R_3$$

$$U_1 = IR_1 = \dots$$

$$U_2 = IR_2 = \dots$$

$$U_3 = IR_3 = \dots$$