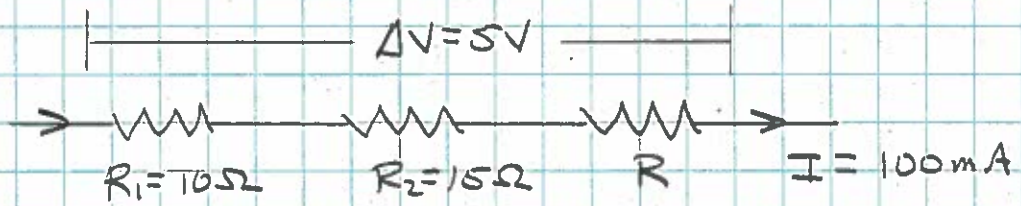
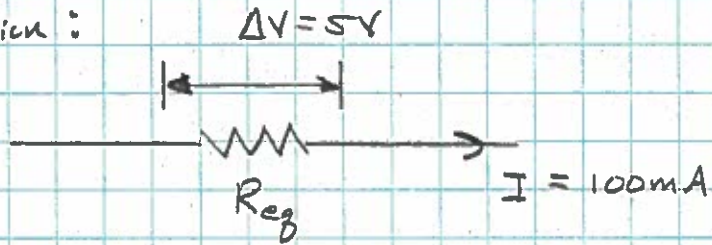


28-16  
1



Series combination:



$$R_{eq} = R_1 + R_2 + R = 25 + R$$

and,

$$I = \frac{1}{R_{eq}} \Delta V$$

∴

$$R_{eq} = \frac{\Delta V}{I} = 50 \Omega$$

∴

$$R = R_{eq} - R_1 - R_2 = \underline{\underline{25 \Omega}}$$