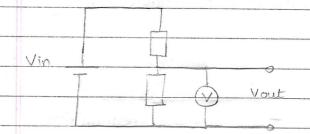
## \* Practical Cinquits \*

## Q-1) Potential dividers.



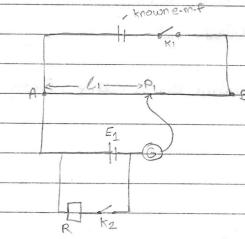
Vout = 
$$\begin{pmatrix} R_2 \\ R_1 + R_2 \end{pmatrix} \times Vin$$

total voltage flowing accross the 2 resistors.

## 0-2) Potentiometer

> used for:

- O measuring emf of a cell
- 2) comparing e.m.f's of 2 cells
- 3) finding internal resistance of a cell



O the key K, is closed and the null point

Pi is found (zero deflection on galvanometer)

the distance from a A to Pi is bi.

L> E, × li

3 Both keys, Krand Kz are closed and the new

null point P2 is found. the distance from A to P2 is l2.

L> Vocla

$$\frac{E_1}{V} = \frac{e_1}{e_2} \qquad \frac{E_1}{V} = \frac{I(R+R)}{IR} = \frac{e_1}{IR} \qquad \frac{e_2}{e_2}$$

$$\mathcal{H} = R(\ell_1 - \ell_2)$$