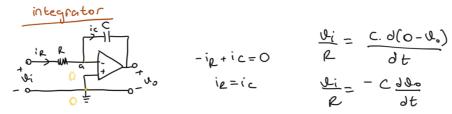
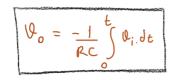
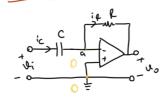
## integrator and differentiator opamps



$$\frac{\mathcal{L}_{i}}{\mathcal{L}} = \frac{C.d(0-4.)}{dt}$$





$$ic = ie$$
  $C \cdot \frac{\partial Q_i}{\partial t} = \frac{-Q_0}{\ell}$