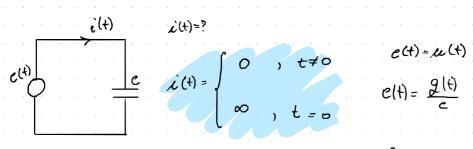
## 1.7. DIRACOVA DELTA FUNKCIJA



$$i(t) = \frac{dg(t)}{dt} = \frac{d(c \cdot e(t))}{dt} = c \cdot \frac{du(t)}{dt} / \int_{-\infty}^{\infty} \longrightarrow \int_{-\infty}^{\infty} i(t) dt = C(1-0) = C$$

Toro je intaitiono racimacye jer ova "funkcija" ima probid pou ne li Endrala liti derivalitha -> to se zovu DISTRIBUCIJE

Traziono hiju koja zadane unjete 1,2. ∫ e'(+) dt = 1 → Objekt koji če Ladorový avati te uvýche nede liti funkcije, ali cermo ga zvati Diracova funkcija

Primjer:

 $\Rightarrow$  without ( $u_{\epsilon}(t)$ ) derivable m  $O_{\epsilon}(t)$  !! Diracore dett definitions has de (4) = NE (4) Koda E-70

$$G_{\mathcal{E}}(t) = \mathcal{U}_{\mathcal{E}}(t)$$

$$G(t) = \mathcal{U}_{\mathcal{E}}(t)$$

$$G(t) = \lim_{\epsilon \to 0} G_{\mathcal{E}}(t)$$

$$= \lim_{\epsilon \to$$