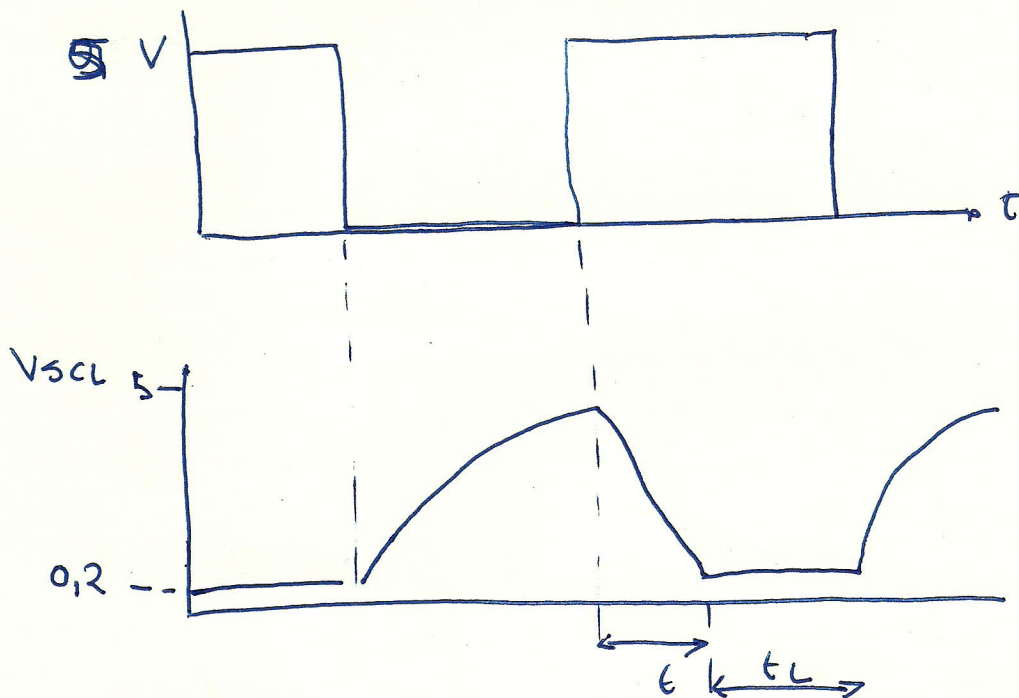


CARRÈGA



$$T = 2 \mu s$$

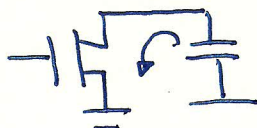
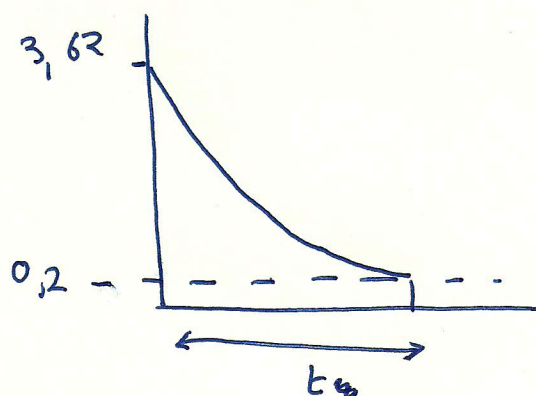
$$t = 1 \mu s$$

$$V_{scL} = 0,2 + (V_{cc} - 0,2) \left(1 - e^{-\frac{t}{RC}} \right)$$

$$= 0,2 + 4,8 \left(1 - e^{-\frac{1 \times 10^{-6}}{2000 \times 400 \times 10^{-12}}} \right)$$

$$= 0,2 + 4,8 \left(1 - e^{-1,25} \right) = 3,62 V$$

DESCARRÈGA



$$V_{sc} = I_{Lmax} \cdot R$$

$$R = \frac{3,62}{10 \times 10^{-3}} = 362 \Omega$$

$$0,2 = 3,62 \cdot e^{-\frac{t}{RC}}$$

$$t = 419 ns ; t_L = 1 \mu s - t = 581 ns$$