5.1d

Demostrar la no-regularidad de $\{a^{2n}b^n \mid n \in \dot{\dot{z}}\}$

$$|w| \geq N$$

$w = xyz$

$\begin{cases} x = a^j \\ y = a^k \\ z = a^{2n-j-k} \end{cases}$

$j+k \leq N$

$k \geq 1$

$\boxed{i=2} \Rightarrow w = a^j a^{2k} a^{2n-j-k} b^n = a^{2n+k} b^n \notin L$