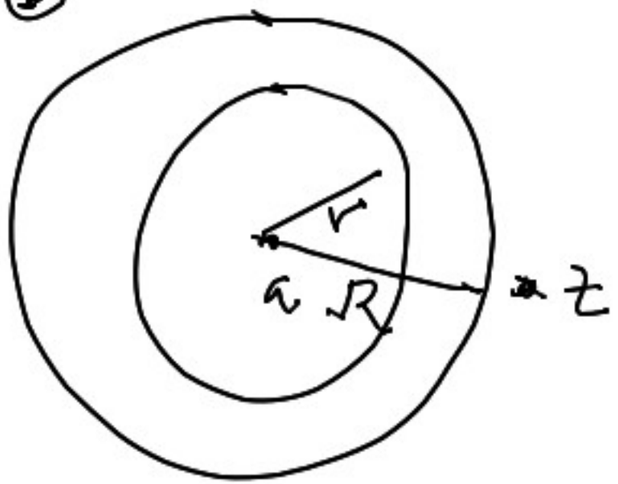
Tema 7: Ejercicios

Tomamos $r < R < |z-a|$

(4)



$f(w) = \frac{1}{w-z}$ $\quad f \in \mathcal{H}(\underline{D[a,R]})$ + $D[a,R]$ es estrellado $\Big\}$ T. C. $\Rightarrow$ Dom. estrellados

$$\Rightarrow \int_{C^+(a,r)} f(w)\,dw = 0$$

*) Si $z \in D(a,r)$ $\overset{\text{Fh. Cauchy}}{\Longrightarrow}$ Cfa.

$$\int_{C^+(a,r)} \frac{1}{w-z}\,dw = 2\pi i$$