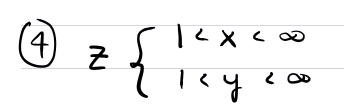
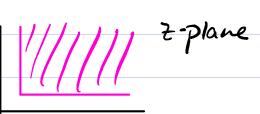


(2)
$$\int Z^{2} \sin\left(\frac{1}{z}\right) dz \rightarrow \left(-\frac{i\pi}{3}\right)^{2} \alpha_{-1} \lambda \pi i$$

$$R = 2\pi$$
Next
Singularity

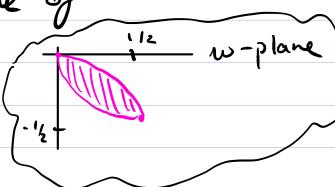
e= 2.718





Sketch nupping in w-plane of

$$\omega = \frac{1}{2}$$



5) Some Rouche's Theorem question, straigtforward application

6 Evaluate $\int_{-\infty}^{\infty} \frac{x^{\alpha-1}}{x+1} dx$

What are the limitations on & such that the integral is finite.

(TT , OCXCI) Sm(Ta)