J ((0/15) dr =0 Ej 8.a (rel.T) log(1+2) = \( \sum\_{k=1}^{\infty} (-1)^{k+1} \) YZ& Dlo,1) (10)(14+1) = 4 = (-1)/4+1 +1 HZ+6 D(011/60) A== D(011)/202 > C(011)

R-B log(44) th =0 Hr amino anado in D(0,4)/50/2

6: ((oir) -> 0 &(t) = reit r(t) = ireitat = i \int log(Atreit) dt = i \int (lu | Atreit | + i arg(Atreit)) dt => log(w) = lulw1 +i arg(w) log(streit) = lu|streit| +i arg(streit))

> ∫\_The lattreit dt = 0

$$|A+reit| = ((A+rcost)^{2} + (runt)^{2})^{1/2} = (A+2rcost)^{2} + r^{2}un^{2}t^{1/2} = reit = rcost + ir lunt$$

$$= (A+r^{2}+2rcost)^{1/2}$$

$$|A+reit| = \frac{1}{2}lm(A+r^{2}+2rcost)$$

$$0 = \int_{\Pi}^{\Pi} |A+reit| dt = \frac{1}{2}\int_{\Pi}^{\Pi} (A+r^{2}+2rcost) dt = \int_{0}^{\Pi} (A+r^{2}+2rcost) dt$$

$$= \int_{0}^{\Pi} |A+reit| dt = \frac{1}{2}\int_{\Pi}^{\Pi} (A+r^{2}+2rcost) dt = \int_{0}^{\Pi} (A+r^{2}+2rcost) dt$$