



[Degree]

$$\oint_C d(\log f) = \oint_C \frac{df}{f} = \oint_C \frac{-1}{z} dz$$

$$\stackrel{\substack{z=e^{it} \\ t \in [0, 2\pi]}}{\Longrightarrow} - \oint_{[0, 2\pi]} \left(e^{-it} \right) \left(ie^{it} dt \right) = -i \oint_{[0, 2\pi]} 1 dt = 2\pi i \cdot (-1)$$