



[Degree]

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

$$\xrightarrow[z \in [0, 2\pi]]{z = e^{it}} - \oint_{[0, 2\pi]} (e^{-it}) (ie^{it} dt) = -i \oint_{[0, 2\pi]} 1 dt = 2\pi i \cdot (-1)$$