



[Degree]

$$\begin{aligned}
 \oint_C d(\log f) &= \oint_C \left(2 \frac{dz}{z - p} - 4 \frac{dz}{z - q} \right) = 2 \oint_C \left(\frac{dz}{z - p} \right) - 4 \oint_C \left(\frac{dz}{z - q} \right) \\
 &= 2(2\pi i) - 4(2\pi i) = 2\pi \cdot (2 - 4) = 2\pi \cdot (-2)
 \end{aligned}$$