



z -plane

$f(z)$ -plane (1.75 scaling)

[Degree]

$$\oint_C d(\log f) = \oint_C \left(2 \frac{dz}{z-p} - 4 \frac{dz}{z-q} \right) = 2 \oint_C \left(\frac{dz}{z-p} \right) - 4 \oint_C \left(\frac{dz}{z-q} \right)$$

$$= 2(2\pi i) - 4(2\pi i) = 2\pi \cdot (2 - 4) = 2\pi \cdot (-2)$$