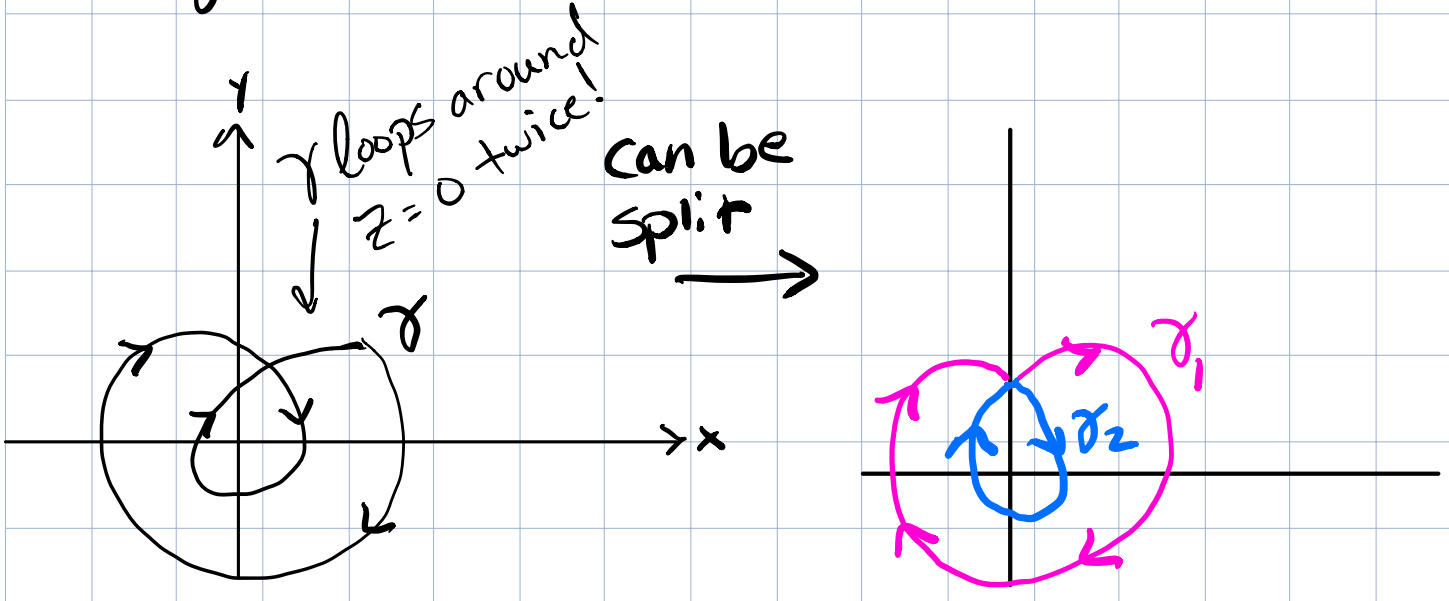
$$\int_\gamma \frac{f(z)}{z}\,dz$$

Say $f(z) = e^{z^2}$



$$= \int_{\gamma_1} \frac{f(z)}{z}\,dz + \int_{\gamma_2} \frac{f(z)}{z}\,dz$$

$$= -2\pi i f(0) - 2\pi i f(0)$$

$$= -4\pi i f(0)$$

(−) b/c of orientation of curves