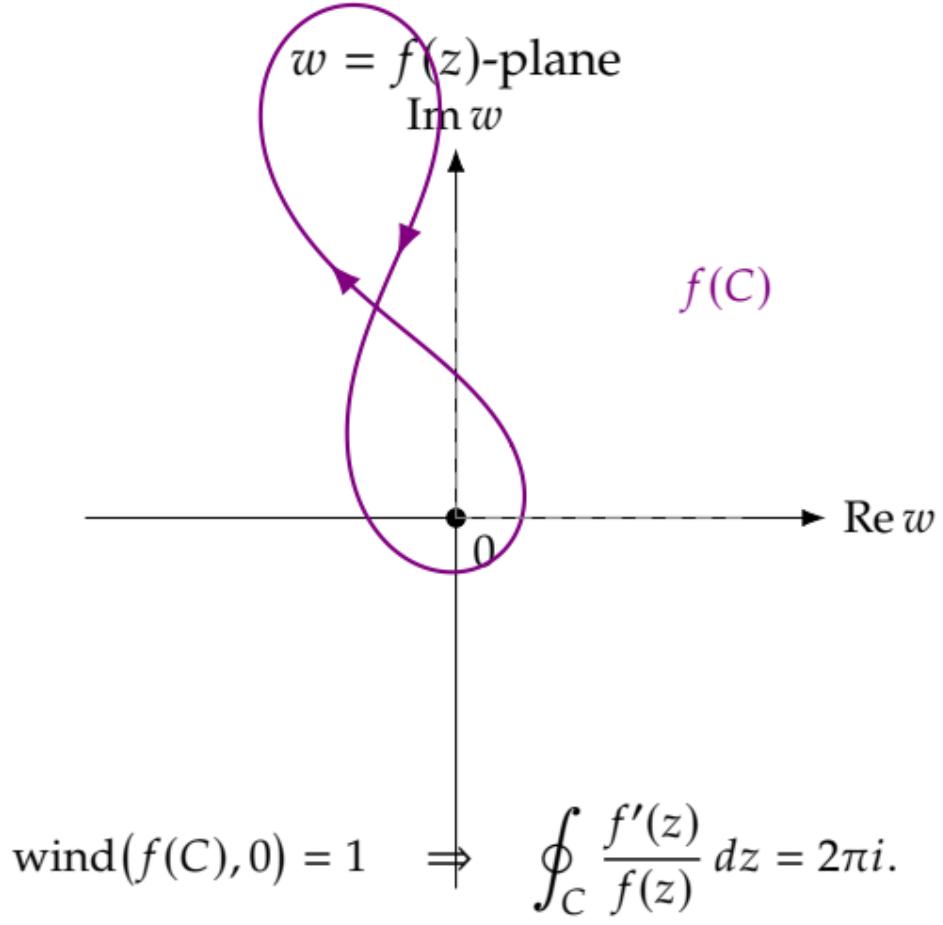


$$f(z) = \frac{(z - 0.3)(z + 0.4i)}{z - 0.6i} \Rightarrow \#Z - \#P = 2 - 1 = 1$$



$$\text{wind}(f(C), 0) = 1 \Rightarrow \oint_C \frac{f'(z)}{f(z)} dz = 2\pi i.$$