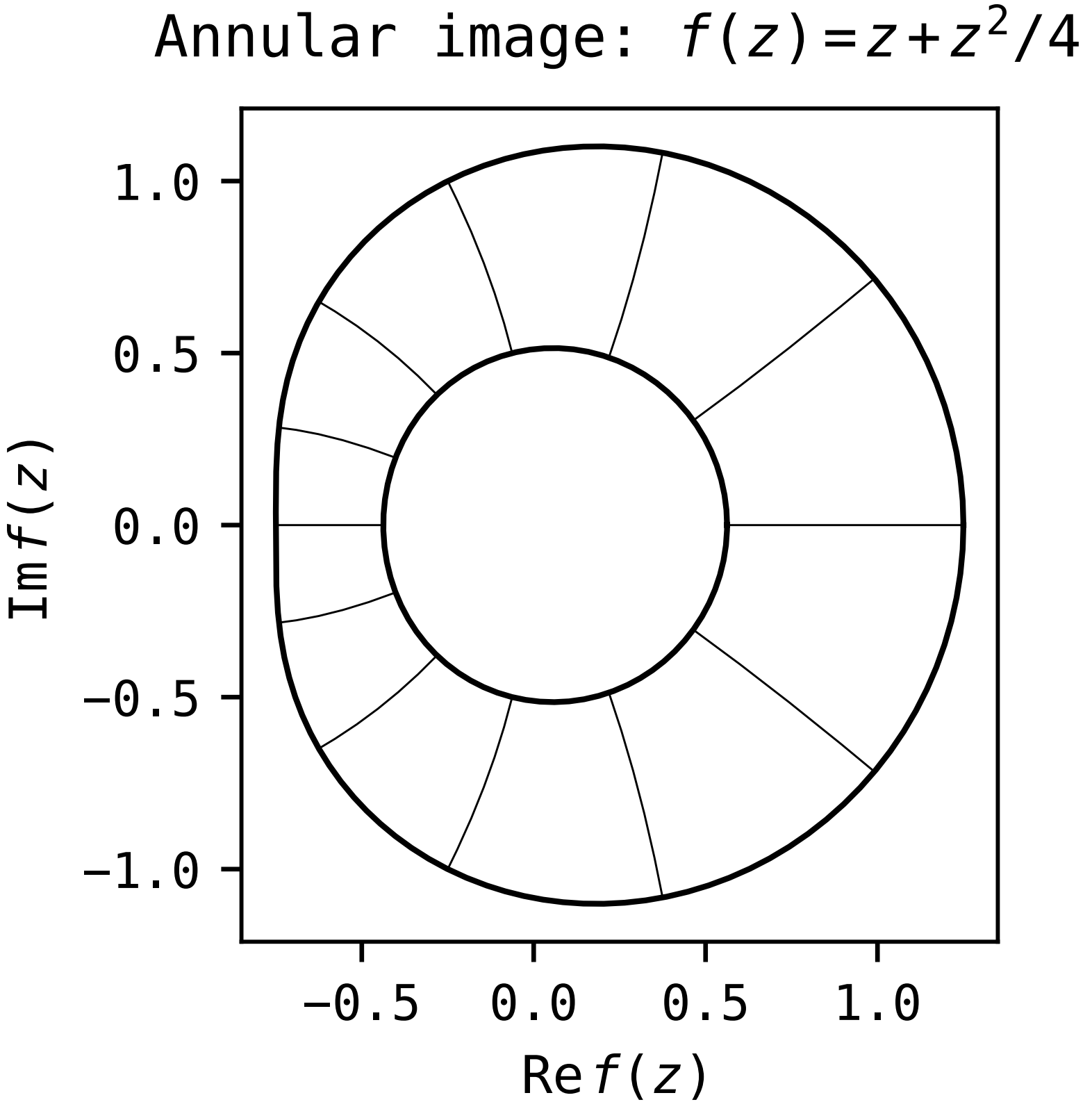

Annular image: $f(z)=z+z^2/4$
1.0
0.5
0.0
−0.5
−1.0
Im $f(z)$
−0.5
0.0
0.5
1.0
Re $f(z)$