

Quiz

1. State the Cauchy–Riemann equations.
2. Give an example of a function $f(z)$ that is analytic.
3. Give an example of a function $f(z)$ that is not analytic.
4. Suppose $f(x + iy) = x^2 - y^2 + 2xy + iv(x, y)$. If f is analytic, then what can $v(x, y)$ be?