Complex Variables Homework Section 12

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Find $u(x, y)$ and $v(x, y)$ for $f(z) = \bar{z}$ and $g(z) = |z|$.

f is associated with $u(x, y) = x$ and $v(x, y) = -y$.
g is associated with $u(x, y) = x^2 + y^2$ and $v(x, y) = 0$.