1. Let $f(z)=u(x, y)+i v(x, y)$ be a complex valued function on an open set $D$. Then state the Cauchy-Riemannian equations for $u$ and $v$.
2. If the Cauchy-Riemannian equations hold then what does this imply about $f=u+i v$ ?
3. Show that $f(z)=e^{z}$ is an entire function. (As part of the solution you should state what it means for $f$ to be entire.)
