Pins: 100 Your Last Names HW: Complex Analysis 16

Math 704

Exercise. Let f be entire. Show if f is not a constant function, then $f(\mathbb{C})$ be dense in \mathbb{C} . Hint: We could have done this exercise awhile back but it now makes a nice comparison with the Casorati-Weirstrass Thm. (Thm III.2.6: z_0 essential sing. $\Rightarrow f(B'_{\varepsilon}(z_0))$ is dense is \mathbb{C}).

Last Modified: Sunday $21^{\rm st}$ February, 2021 at $20{:}26$