

**Problem 7. Plotting scalar functions of complex variables** Given the function  $f(z) = \frac{1}{z+8}$  with complex variable input  $z = x + jy$ , create a contour plot in Matlab/Octave that has  $\text{Re}(z)$  as the x-axis,  $\text{Im}(z)$  as the y-axis, and  $|f(z)|$  as the z-axis. Plot it for the range  $-5 < \text{Re}(z) < 5$  and  $-j5 < \text{Im}(z) < j5$ , with at least a grid of 100 points for each axis (hint: use `linspace`, `meshgrid`, and `surf` functions in Matlab). What happens in the contour plot near the problematic points discussed in Problem 4(d) (Note: the problematic point for this  $f(z)$  will be different than those for Problem 4(d))?

# Unctions Of A Complex Variable

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## **Unctions Of A Complex Variable:**

## **Unctions Of A Complex Variable** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has become much more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Unctions Of A Complex Variable**, a literary masterpiece that delves deep into the significance of words and their affect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall affect on readers.

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