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Problem 2.4

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Homework due Oct 31, 2020 20:00 EDT

Problem 2.4

1 point possible (graded)

Build the Laurent expansion for the function

$$\frac{z}{z^2 + 1}$$

around point $z = i$. What is the convergence region of the obtained result?

$\frac{1}{z - i} - \frac{i}{4} \sum_{n=0}^{\infty} \left(\right)^n (z - i)^n, \quad |z - i| <$

2

1

$-\frac{1}{2}$

$\frac{1}{2}$

$\frac{i}{2}$

$\frac{2}{i}$

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