Problem 2.3

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Homework due Oct 31, 2020 20:00 EDT *Completed*

Problem 2.3

1/2 points (graded)

Build the Laurent expansion around $z = 0$ for the function

$$\frac{1}{z(z-1)}$$

for the region: (i) $|z| \in (0,1)$ and ii) $|z| \in (1,\infty)$.

(i) $$\frac{1}{z(z-1)} = \frac{-1}{z} - \sum_{n=0}^{\infty} z^n$$

	-2	-1	0	1	2	z^n	

✔

(ii) $$\frac{1}{z(z-1)} = \frac{1}{z} + \sum_{n=2}^{\infty} z^{-n-1}$$

	-2	-1	0	1	2	z^n	

✖

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