Obtain the first four terms of the Laurent Series expansion for the following functions

1. \( \frac{\exp(z)}{z(z^2 + 1)} \) for \( 0 < |z| < 1 \)

2. \( \frac{1}{\sin(z)} \) for \( 0 < |z| < \pi \)

3. \( \frac{1}{\exp(z) - 1} \) for \( 0 < |z| < 2\pi \)

Reading Assignment 4 (Ch. 11, Complex Variable Theory)

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