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complex analysis problems with solutions ksu May 13 2024 notice that $f(z) = \frac{1}{z} \sinh z$ is analytic for $z \neq 0$ which means that $z = 0$ is an isolated singularity and is in fact an essential singularity. Consider the function $\sin z = \frac{e^{iz} - e^{-iz}}{2i}$ classify the singularity at $z = 0$ and calculate the residue.

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we will make heavy use of the exponential function of a complex number $\exp c = e^c$ we will actually define it properly later on but recall that $e^2 = 7.18$

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