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Complex analysis

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🏠 Course / 3. Residue theory. Application to computation of complex integrals. Jordan's lemma. / Dedicated problems

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Problem 3.7

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Homework due Nov 11, 2020 19:00 EST

Problem 3.7

2 points possible (graded)

Evaluate the integrals (use pi for π and exp for exponential function).

$\int_0^\infty \frac{x-\sin x}{x^3} dx$

$\int_{-\infty}^\infty \frac{e^{-iz}dz}{z^2+9}$

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