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Trace Classes and Fixed Points for the Extended Modular Group $\overline{\Gamma}$

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Abstract: The extended modular group $\overline{\Gamma} = \text{PGL}(2, \mathbb{Z})$ is the group obtained by adding the reflection $R(z) = 1/\overline{z}$ to the generators of the modular group $\Gamma = \text{PSL}(2, \mathbb{Z})$. In this paper, we find the trace classes of the extended modular group $\overline{\Gamma}$. Using this, we classify the elements of $\overline{\Gamma}$.

Key Words: Extended modular group, trace class, fixed points

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