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MA 26500-215 Quiz 8

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1. Let $\ell^2(\mathbb{R})$ be the set of all sequences $\{a_n\}$ whose sum of squares converges, i.e.,

$$\sum_{n=1}^{\infty} a_n^2 < \infty.$$

Show that $\ell^2(\mathbb{R})$ is a vector space.

2.