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Short title: Matrix elements for sum of power-law potentials in quantum mechanics using generalized hypergeometric functions.

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Primary classification: 81Q05

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Review text:

A very routine variational calculation of energies of certain elementary quantum oscillators. The results sampled in three compact tables are based on the use of a certain non-orthogonal basis. The presentation of very long formulae (e.g., more than a page for eq. (3.20)) looks redundant, equally well as Lemma 3.3 which is just a special case of Lemma 3.2.