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EXPLICIT SOLUTIONS OF MOMENT PROBLEMS, I

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Abstract: The moment problems minimizing (maximizing) $\{E \| X_1 - X_2 \|^p : E \| X_i \|^{qj} = a_{ij}; i = 1, 2, j = 1, ..., n\}$, where X_i takes values in a separable norm space, are investigated. Explicit solutions when n = 1 are given for all $p \ge 0$ and $q_j \ge 0$ ($0^0 := 0$). If n = 2, the minimization problem is solved for $1 \le q_1 \le p < q_2$ and the maximization problem for $0 or <math>0 < q_1 < q_2 < p$. Possible generalizations and open problems are presented.

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