Title: Pseudo core invertibility in a certain finite-dimensional ∗-algebra generated by two projections

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We investigate the existence criterion and formulae of pseudo core inverses of elements in the certain finite-dimensional ∗-algebra generated by two projections p and q under some prescribed conditions that $(pq)^2 = pq$ and $pqp = \lambda p(\lambda \in \mathbb{F})$, respectively. In addition, we solve a question about Drazin invertibility proposed by Chen *et al*.

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