

Gabriela N. Stănică and Pantelimon Stănică
Recurrences for Entries of Powers of Matrices,
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Abstract

In this note, giving course to a challenge in a recent paper of Larcombe [2], we find the entries of any n th power of a 3×3 matrix, and as a byproduct, we recover Larcombe's result on 2×2 matrices. Further, we look at block matrices and show an invariance result for the powers of such matrices.