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A formula on power n of 2×2 matrices.

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Summary: We investigate general formulae for power n of 2×2 matrices using the eigenvalues of A , and give some examples of Excel programming using general formulae for power n of 2×2 matrices. Those formulae will enhance the efficiency of computer programming for matrix multiplication computations and applications.

Classification: H60 N30

Keywords: power n of matrix; recursive relation; eigenvalue; upper triangular matrix

<http://www.pphmj.com/abstract/8933.htm>