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4 Engineering Computation ECL4-7 After n iterations $N_n N N x_n = Ax_n$

2 2 2 1 Since we have defined λ_1 as the largest eigenvalue, eventually the term $\lambda_1^n u_1$ will dominate, provided $\lambda_1 \neq 0$, and $\lambda_1 > 1$. In this case the vector $x = \lambda_1^n u_1$ will be parallel to the eigenvector u_1 corresponding to the largest eigenvalue.

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