

Notes in APPM 4650

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1 Numeric Eigenvector Pairs

for real A 's

$$\lambda^3 + ()\lambda^2 + ()\lambda + () = 0$$
$$(\lambda - 30)(\lambda - 25)(\lambda - 20) = 0$$

Gershgorin's Theorem:

distance from $|\lambda - 26| \leq |-2| + |2|$

always true for at least one λ . So in a circle around your diagonal elements at least 1 eigenvalue exists.