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Matrices in Geometry 12.155

EE25BTECH11037 - Divyansh

Question: The eigenvalues of a matrix are i, -2i and 3i. The matrix is

1) unitary

2) anti-unitary

3) Hermitian

4) anti-Hermitian

Solution:

We know that all the eigenvalues of an anti-Hermitian matrix are either 0 or purely imaginary. Therefore, the matrix is anit-Hermitian.

Thus option 4) us correct