

MS-A0001 - Matrix Algebra, 26.10.2020-08.12.2020

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Started on	Tuesday, 8 December 2020, 8:44 AM
State	Finished
Completed on	Tuesday, 8 December 2020, 8:44 AM
Time taken	15 secs
Grade	3.00 out of 3.00 (100%)

Quiz navigation

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Question 1

Flag question

Mark 1.00 out of 1.00

Correct

Let $A = \begin{pmatrix} 2 & -1 \\ -1 & 2 \end{pmatrix}$. Is $\begin{bmatrix} 1 \\ 1 \end{bmatrix}$ an eigenvector?

Select one or more:

- ☐ a. False
- ☒ b. True ✓ Yes!

Your answer is correct.
The correct answer is: True

Question 2

Flag question

Mark 1.00 out of 1.00

Correct

If $\lambda_1 = 2$ is the smallest eigenvalue of some invertible matrix A, what is the largest eigenvalue of its inverse?

Select one or more:

- ☒ a. 1/2 ✓ Well done!
- ☐ b. 2
- ☐ c. Cannot be deduced!

Your answer is correct.
The correct answer is: 1/2

Question 3

Flag question

Mark 1.00 out of 1.00

Correct

Let A be orthogonal. Are its eigenvalues always complex?

Select one or more:

- ☐ a. True
- ☒ b. False ✓ Yes, rotation matrices are only a subset of orthogonal matrices.

Your answer is correct.
The correct answer is: False

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◀ Lecture 9 (Activation Quiz)

Lecture 11 (Activation Quiz) ▶



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