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**%)

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Finish review

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

Finish review

◄ Lecture 9 (Activation Quiz)

Lecture 11 (Activation Quiz) ►