MS-A0001 - Matrix Algebra, 26.10.2020-08.12.2020

Started on	Tuesday, 8 December 2020, 8:36 AM
State	Finished
Completed on	Tuesday, 8 December 2020, 8:38 AM
Time taken	1 min 42 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

$$A = \begin{pmatrix} \frac{1}{\sqrt{2}} & -\frac{1}{\sqrt{2}} \\ \frac{1}{\sqrt{2}} & \frac{1}{\sqrt{2}} \end{pmatrix}$$

Is A a valid rotation matrix? Is it orthogonal?

Select one or more:

- a. True & False
- b. True & True ✓ Well done
- c. False & False

Your answer is correct.

The correct answer is: True & True

Question **2**

Flag question Mark 1.00 out of 1.00 Correct

$$A = \begin{pmatrix} 0 & -1 \\ -1 & 0 \end{pmatrix}$$

Is A a reflection matrix?

Select one or more:

- a. False
- b. True ✓ Well done!

Your answer is correct.

The correct answer is: True

Question **3**

Flag question Mark 1.00 out of 1.00 Correct

Is multiplication by a complex number a linear transform? What does multiplication by the complex unit i mean?

Select one or more:

- a. True, rotation by $\pi/2$ ✓ Well done!
- b. False
- c. True, reflection

Your answer is correct.

The correct answer is: True, rotation by $\pi/2$

Finish review

◄ Lecture 7 (Activation Quiz)

Lecture 9 (Activation Quiz) ►