Grades

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Learner Metrics

L Teacher Metrics

MS-A0001 - Matrix Algebra, 26.10.2020-08.12.2020

Dashboard / Courses / School of Science / department of... / ms-a0001 - ma... / Sections / Materials / lecture 11 (a...

Started on Tuesday, 8 December 2020, 8:45 AM

State Finished Completed on Tuesday, 8 December 2020, 8:46 AM

Time taken 12 secs

Grade 3.00 out of 3.00 (100%)

Question 1

Mark 1.00 out of 1.00 Correct Quiz navigation

Finish review

$$A=\left(egin{array}{ccc} 2 & -1 \ -1 & 2 \end{array}
ight)$$
 , $\Lambda=\left(egin{array}{ccc} 3 & 0 \ 0 & 1 \end{array}
ight)$, $V=\left(egin{array}{ccc} -rac{1}{\sqrt{2}} & rac{1}{\sqrt{2}} \ rac{1}{\sqrt{2}} & rac{1}{\sqrt{2}} \end{array}
ight)$.

Is $A=V\Lambda V^T$?

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

$$A=\left(egin{array}{cccc} 2 & -1 & 0 \ -1 & 2 & -1 \ 0 & -1 & 2 \end{array}
ight)$$
 , $\Lambda=\left(egin{array}{cccc} 2+\sqrt{2} & 0 & 0 \ 0 & 2 & 0 \ 0 & 0 & 2-\sqrt{2} \end{array}
ight)$, $V=\left(egin{array}{cccc} rac{1}{2} & -rac{1}{\sqrt{2}} & rac{1}{2} \ -rac{1}{\sqrt{2}} & 0 & rac{1}{\sqrt{2}} \ rac{1}{2} & rac{1}{\sqrt{2}} & rac{1}{2} \end{array}
ight)$.

Is $A=V\Lambda V^T$?

Select one or more:

- ☑ a. True ✓ Yes!
- b. False

Your answer is correct.

The correct answer is: True

Question **3**

Mark 1.00 out of 1.00 Correct

Algebraic and geometric orders are always the same for a real valued eigenvalue.

Select one or more:

- ☑ a. False ✓ Yes!
- ☐ b. True

Your answer is correct.

The correct answer is: False

Finish review

■ Lecture 10 (Activation)

Quiz)

Problem Sheet 1 ►



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