

- » Welcome
- » Materials
- » Assignments
- » STACK
- » Homework Submission
- » ONLINE EXAM
- » END EXAM 8.12

MS-A0001 - Matrix Algebra, 26.10.2020-08.12.2020

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Started on	Tuesday, 8 December 2020, 8:31 AM
State	Finished
Completed on	Tuesday, 8 December 2020, 8:31 AM
Time taken	15 secs
Grade	3.00 out of 3.00 (100%)

Question 1

Flag question Mark 1.00 out of 1.00 Correct

Let

$$a_1 = \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}, a_2 = \begin{pmatrix} 1 \\ 1 \\ 0 \end{pmatrix}, a_3 = \begin{pmatrix} 1 \\ 0 \\ 0 \end{pmatrix},$$

be three vectors in \mathbb{R}^3 . Are they linearly independent?

Select one or more:

- ☒ a. True Yes!
- ☐ b. False

Your answer is correct.

The correct answer is: True

Question 2

Flag question Mark 1.00 out of 1.00 Correct

$$A = \begin{pmatrix} 1 & 1 & 0 & 1 \\ 0 & 0 & 2 & 0 \\ -1 & -1 & 2 & 0 \end{pmatrix}$$

What is the rank of A?

Select one or more:

- ☐ a. 4
- ☐ b. 2
- ☒ c. 3 Well done!

Your answer is correct.

The correct answer is: 3

Question 3

Flag question Mark 1.00 out of 1.00 Correct

$$A = \begin{pmatrix} -1 & 1 & 2 \\ 0 & 1 & 2 \\ -1 & 0 & 1 \end{pmatrix}, b = \begin{pmatrix} 2 \\ 3 \\ 0 \end{pmatrix}$$

Are the columns of A a basis of \mathbb{R}^3 ? If so, find the coordinates of b!

Select one or more:

- ☐ a. No, this was a trick question.
- ☐ b. Yes, (0,0,0).
- ☒ c. Yes, (1,1,1). Well done!

Your answer is correct.

The correct answer is: Yes, (1,1,1).

Finish review

◀ Lecture 6 (Activation Quiz)

Lecture 8 (Activation quiz) ▶



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