MS-A0001 - Matrix Algebra, 26.10.2020-08.12.2020

Started on	Tuesday, 8 December 2020, 7:53 AM
State	Finished
Completed on	Tuesday, 8 December 2020, 7:53 AM
Time taken	11 secs
Grade	**3.00** out of 3.00 (**100**%)

Question **1**

Flag question Mark 1.00 out of 1.00 Correct

$$\begin{cases} 2x + y + z = 1 \\ 8x + y + 3z = 12 \\ y + 2z = 10 \end{cases}$$

Convert to matrix form $Ax = b$. What is the element α_{13}?

Select one or more:

- a. 2
- b. 0
- c. 1 ✓ OK

Your answer is correct.

The correct answer is: 1

Question **2**

Flag question Mark 1.00 out of 1.00 Correct

$$\begin{pmatrix} 1 & 2 \\ 2 & 3 \end{pmatrix} \begin{pmatrix} -1 & 2 \\ 2 & -3 \end{pmatrix} = \begin{pmatrix} 3 & -4 \\ 4 & -5 \end{pmatrix}$$

True or false?

Select one or more:

- a. False
- b. True ✓ Indeed, it is true!

Your answer is correct.

The correct answer is: True

Question **3**

Flag question Mark 1.00 out of 1.00 Correct

Consider a system (again):

$$\begin{cases} 2x + y + z = 1 \\ 8x + y + 3z = 12 \\ y + 2z = 10 \end{cases}$$

Is the following a correct elimination matrix?

$$\begin{pmatrix} 1 & 0 & 0 \\ -4 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}$$

Select one or more:

- a. False
- b. True ✓ Spot on!

Your answer is correct.

The correct answer is: True

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