🔔 2

Started on	Wednesday, 7 April 2021, 3:05 PM
State	Finished
Completed on	Wednesday, 7 April 2021, 3:14 PM
Time taken	9 mins 38 secs
Marks	4.00/5.00
Grade	**8.00** out of 10.00 (**80%**)

Question 1

Correct

Mark 1.00 out of 1.00

The value of λ for which the matrix $\begin{bmatrix} 0 & 1 & -2 \\ -1 & 0 & 3 \\ \lambda & -3 & 0 \end{bmatrix}$ is singular

Select one:

○ a. 4

○ b. -1

○ c. 0

◉ d. 2 ✔

Your answer is correct.

The correct answer is: 2

Question 2

Incorrect

Mark 0.00 out of 1.00

The matrix $\begin{bmatrix} 1 & 0 & 1 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix}$ is in row reduced echelon form.

Select one:

○ a. True ✗

○ b. False

Your answer is incorrect.

The correct answer is: False

Question 3

Correct

Mark 1.00 out of 1.00

Let A and B be two 2×2 matrices. If $AB = 0$; then $A = 0$ or $B = 0$:

Select one:

○ a. True

◉ b. False ✓

Your answer is correct.

The correct answer is: False

Question 4

Correct

Mark 1.00 out of 1.00

Rank of the matrix $\begin{bmatrix} 1 & 1 & 1 & 1 \\ 2 & 3 & 4 & 5 \end{bmatrix}$ is

Select one:

○ a. 3

◉ b. 2 ✓

○ c. 1

○ d. 0

Your answer is correct.

The correct answer is: 2

For the matrix $\begin{bmatrix} 1 & 0 & 1 \\ 3 & 4 & 5 \\ 2 & 3 & 4 \end{bmatrix}$, the minor of an element 0 whose position is first row and second column is

Select one:

○ a. 1

◉ b. 2

✓

○ c. -2

○ d. 0

Your answer is correct.

The correct answer is: 2