

VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

CORRECT ANSWER SOLVED BY HADI
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TEAM HADI(VU LAHORE)

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WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!



Question # 22 of 30 (Start time: 08:13:10 PM, 02 January 2021)

Total Marks: 1

If a system of equations is solved using the Gauss-Seidel method, then which of the following is the most appropriate answer about the matrix M that is derived from the coefficient matrix ?

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Select the correct option

- | | |
|----------------------------------|---|
| ☐ | All of its entries on the diagonal must be zero. |
| ☐ | All of its entries below the diagonal must be zero. |
| ☒ | All of its entries above the diagonal must be zero. |
| ☐ | All of its entries below and above the diagonal must be zero. |

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Question # 13 of 30 (Start time: 08:06:27 PM, 02 January 2021)

Total Marks: 1

Cramer's Rule is not suitable for which type of problems?

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Select the correct option

☐	Small systems with 4 unknowns	///
☐	Systems with 2 unknowns	///
☒	Large systems	///
☐	Systems with 3 unknowns	///

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☐	Small systems with 4 unknowns	///
☐	Systems with 2 unknowns	///
☒	Large systems	///
☐	Systems with 3 unknowns	///

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Question # 25 of 30 (Start time: 08:15:50 PM, 02 January 2021)

Total Marks: 1

Which of the following method is used for solving the system of linear equation?

Select the correct option

☐	Runge-Kutta Method
☐	Gauss-Seidal Method
☒	Simpson's Rule
☐	Newton Raphson Method

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Question # 15 of 30 (Start time: 08:08:47 PM, 02 January 2021)

Total Marks:

Algebra is the study of the properties of operations on -----

Select the correct option

☒ Numbers☐ Variables

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Question # 3 of 30 (Start time: 07:49:26 PM, 02 January 2021)

Total Marks: 1

Let $W = \{(x, y) \text{ such that } x, y \in \mathbb{R} \text{ and } y = 0\}$. Is W a vector subspace of plane.

Select the correct option

☒	YES
☐	NO

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Question # 24 of 30 (Start time: 08:14:58 PM, 02 January 2021)

Total Marks: 1

Two vectors are linearly dependent if and only if they lie _____

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Select the correct option



on a line parallel to x-axis



on the same line through origin

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Question # 29 of 30 (Start time: 08:17:32 PM, 02 January 2021)

Total Marks: 1

The Gauss-Seidel method is applicable to symmetric -----definite matrices

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Select the correct option

☒	Positive	
☐	Negative	
☐	Zero	
☐	Equal	

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Question # 26 of 30 (Start time: 08:16:30 PM, 02 January 2021)

Total Marks: 1

A system of linear equations is said to be homogeneous if it can be written in the form _____.

Select the correct option

☒ $AX = B$

☐ $AX = 0$

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Question # 6 of 30 (Start time: 07:58:44 PM, 02 January 2021)

Total Marks:

A partitioned matrix 'A' is said to be block diagonal if the matrices on the main diagonal are square and all other position matrices are _____.

Select the correct option

☒	zero	
☐	unit	
☐	nonzero symmetric	
☐	nonzero skew symmetric	

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Question # 15 of 30 (Start time: 08:08:47 PM, 02 January 2021)

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Algebra is the study of the properties of operations on -----

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☒ Numbers☐ Variables

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Question # 23 of 30 (Start time: 08:14:08 PM, 02 January 2021)

Total Marks: 1

The Invertible Matrix Theorem applies only to _____ matrices.

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Select the correct option

☐	rectangular	
☒	square	
☐	identity	
☐	scalar	

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Question # 3 of 30 (Start time: 07:49:26 PM, 02 January 2021)

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☐	NO

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Question # 8 of 30 (Start time: 08:00:02 PM, 02 January 2021)

Total Marks: 1

A transformation $T : R^n \rightarrow R^m$ is a rule that assigns to each vector x in R^n , an image vector $T(x)$ in R^m . The set R^n is called the _____, and R^m is called the _____.

Select the correct option

☒	domain of T , co-domain of T
☐	co-domain of T , domain of T

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Reload Math Equations

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Question # 9 of 30 (Start time: 08:01:26 PM, 02 January 2021)

Total Marks: 1

If one row of A is multiplied by k to produce B, then which of the following condition is true?

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Select the correct option

☐	$\det(AB) = (\det A)(\det B)$	
☒	$\det B = k \det A$	
☐	$\det B = -\det A$	
☐	$\det B = \det A$	

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