MTH501 Grand QUIZ 2020 HADI (VUAnswer

Linear Algebra (Virtual University of Pakistan)

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CORRECT ANSWER SOLVED BY HADI
CELL NO : +923228043306
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Question # 2 of 30 (Start time: 11:13:27 AM, 01 July 2020)

Total Marks: 1

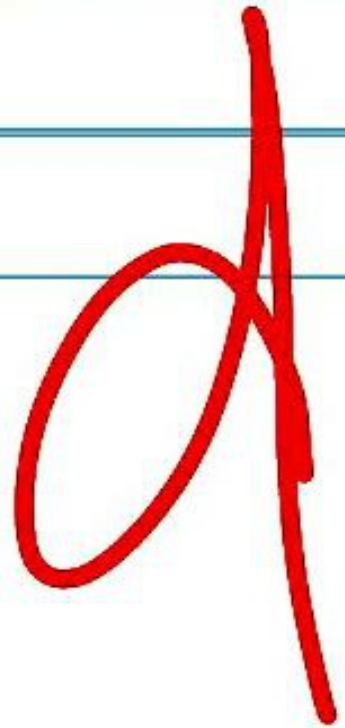
The values of x and y which satisfy the matrix equation: $\begin{pmatrix} 4 \\ y \end{pmatrix} = x\begin{pmatrix} 2 \\ 3 \end{pmatrix}$ *are* - - - - .

Select the correct option

Reload Math Equations

- $\begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} 6 \\ 2 \end{pmatrix}$
- $\begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} 2 \\ 3 \end{pmatrix}$
- $\begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} 3 \\ 2 \end{pmatrix}$
- $\begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} 2 \\ 6 \end{pmatrix}$

Click to Save Answer & Move to Next Question



Question # 2 of 30 (Start time: 12:04:38 PM, 01 July 2020)

Total Marks: 1

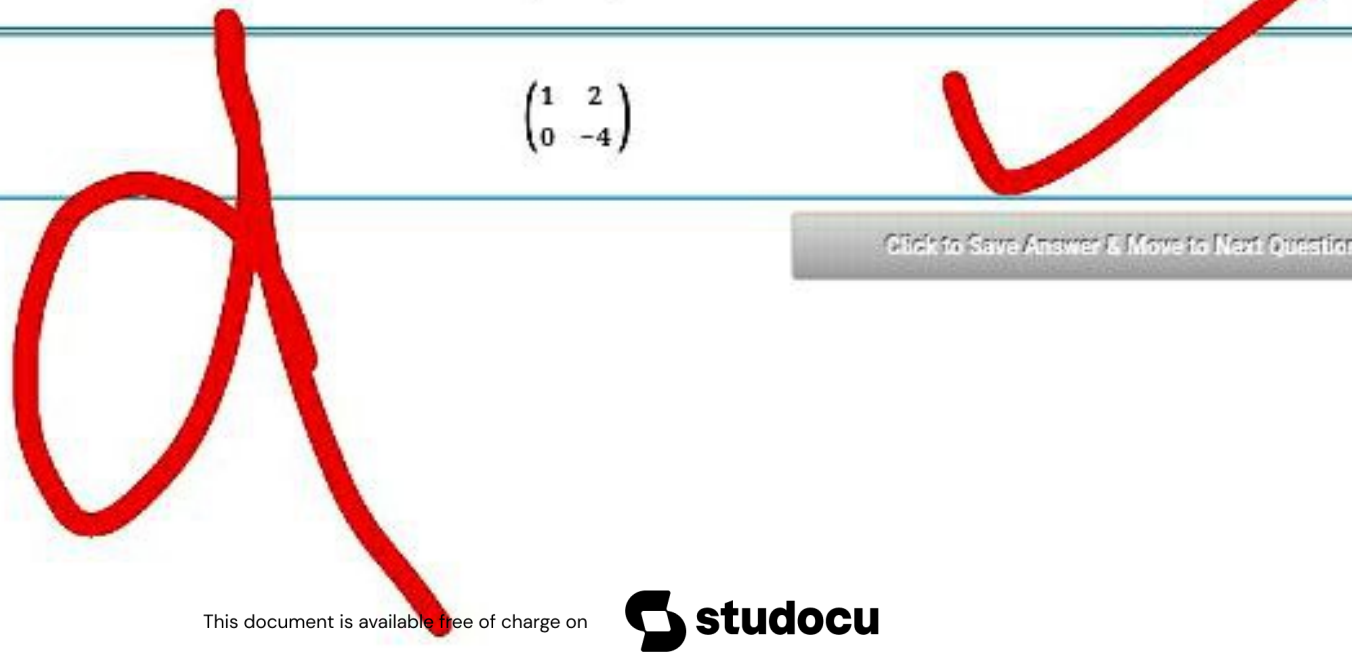
Which of the following is Row - Equivalent of $\begin{pmatrix} 3 & 2 \\ 1 & 2 \end{pmatrix}$?

Select the correct option

Reload Math Equations

O	$\begin{pmatrix} 1 & 2 \\ 2 & 3 \end{pmatrix}$
O	$\begin{pmatrix} 1 & 2 \\ 0 & 4 \end{pmatrix}$
O	$\begin{pmatrix} 1 & 2 \\ -4 & 0 \end{pmatrix}$
O	$\begin{pmatrix} 1 & 2 \\ 0 & -4 \end{pmatrix}$

Click to Save Answer & Move to Next Question



Question # 4 of 30 (Start time: 12:06:16 PM, 01 July 2020)

Total Marks: 1

If all the elements of one row is '0' in a matrix A then which of the following about the determinant of the matrix is true?

Select the correct option

- det (A)=0
- det (A)=1
- det (A)is not equal to '0'
- det (A)is not equal to'1'

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Question # 12 of 30 (Start time: 12:13:38 PM, 01 July 2020) Total Marks: 1

The word algorithm comes from the famous Muslim mathematician

Select the correct option

- Omar Khayyam
- Al-Kindi
- Al-Khwarizimi
- None of these

Question # 9 of 30 (Start time: 11:21:34 AM, 01 July 2020)

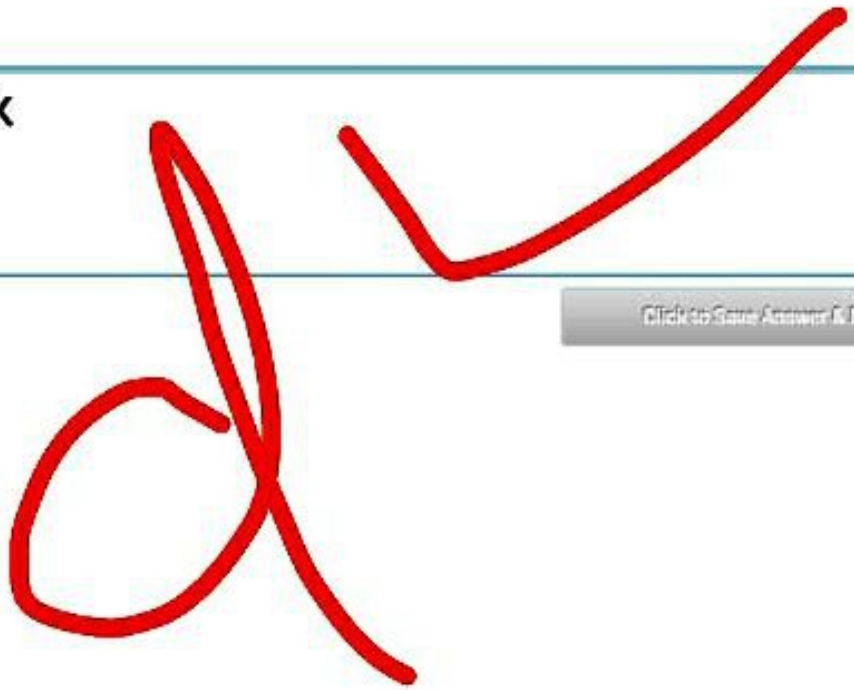
Total Marks: 1

Multiplication of a partitioned matrix by a scalar is also computed _____.

Select the correct option

- row by row
- column by column
- diagonal by diagonal
- block by block

Click to Save Answer & Move to Next Question



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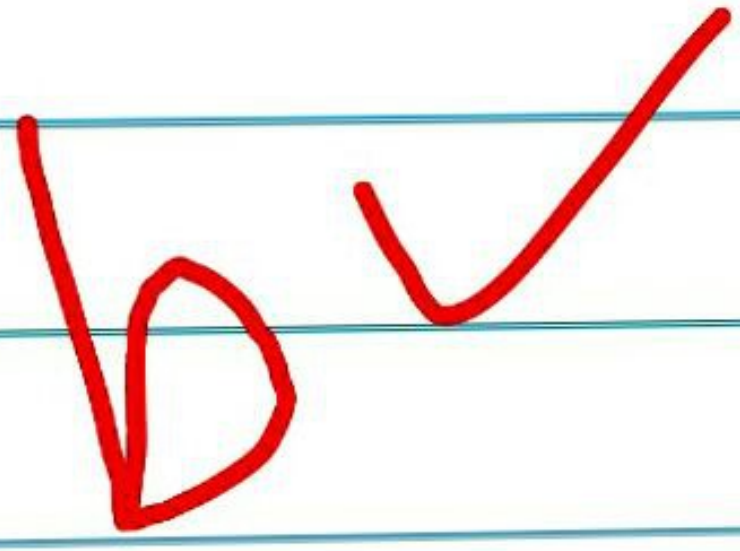
Question # 8 of 30 (Start time: 11:19:39 AM, 01 July 2020)

Total Marks: 1

A system of linear equations is said to be homogeneous if the constant terms are all

Select the correct option

- One
- Zero
- Both (a) and (b)
- None of the above



Click to Save Answer & Move to Next Question

Question # 1 of 30 (Start time: 12:03:57 PM, 01 July 2020)

Total Marks: 1

$|A|.|B| = |A.B|$

Select the correct option

- TRUE
- FALSE

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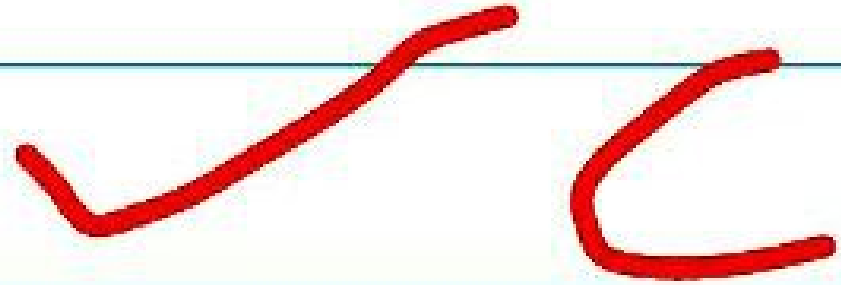
Question # 15 of 30 (Start time: 01:08:01 PM, 01 July 2020)
Total Marks: 1

Let A be the matrix of order 3x2,B be the matrix of order 2x4 and C be the matrix of order 4x5; then which of the following is the order of the matrix ABC?

Select the correct option

- 3x4
- 2x2
- 3x5
- 2x5



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Quiz Start Time: 12:03 PM, 01 July 2020

Question # 5 of 30 (Start time: 12:06:58 PM, 01 July 2020)

Total Marks: 1

At what condition det(AB)=(detA)(detB) is possible?

Select the correct option

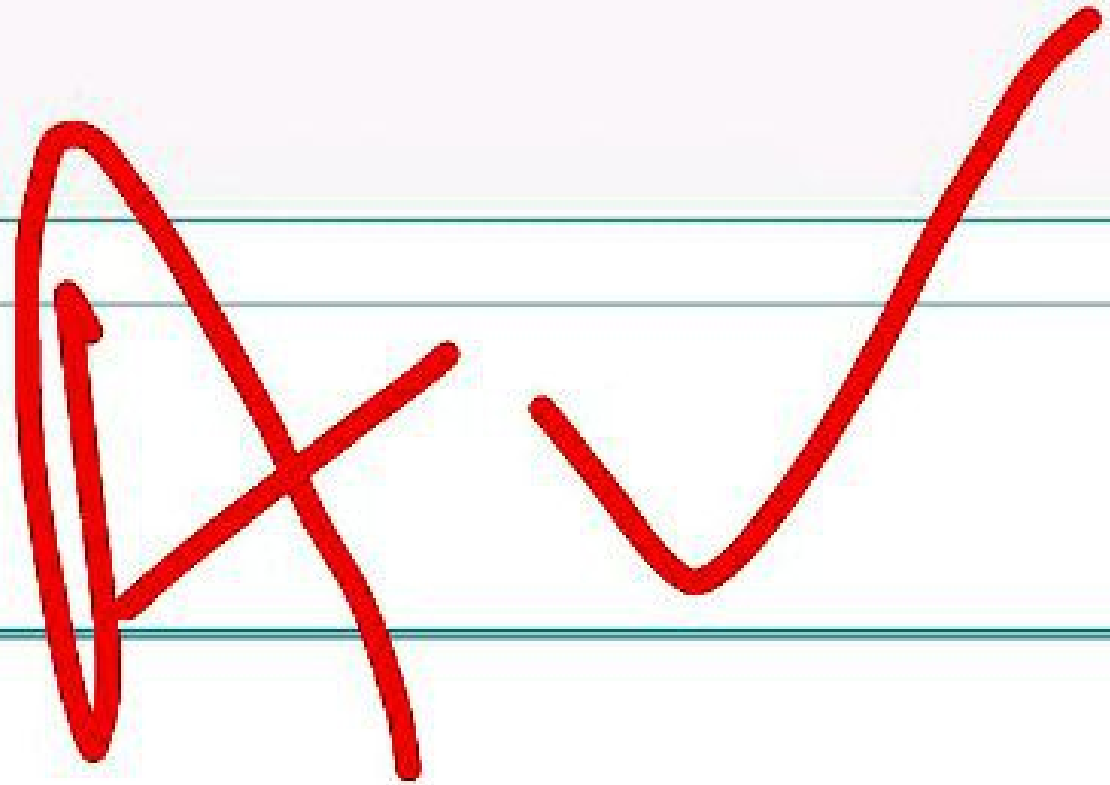
- When A is a row matrix
- When A and B are m x n matrices
- When B is a column matrix
- When A and B are n x n matrices

Click to Save Answer & Move to Next Question

Question # 22 of 30 (Start time: 11:38:58 AM, 01 July 2020)

Total Marks: 1

The determinant of a diagonal matrix is the product of the diagonal elements.



Select the correct option

- TRUE
- FALSE

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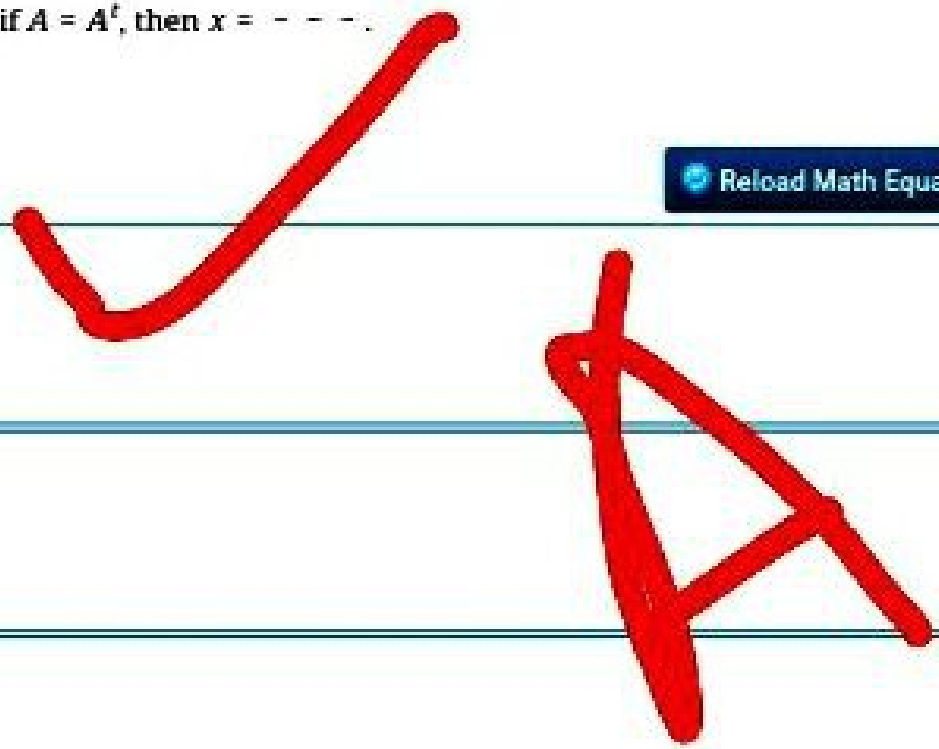
Question # 17 of 30 (Start time: 12:18:54 PM, 01 July 2020)

Total Marks: 1

For the matrix: $A = \begin{pmatrix} 4 & x+2 \\ 2x-3 & 1 \end{pmatrix}$, if $A = A^t$, then $x =$ - - - .

Select the correct option

Reload Math Equations



O	5
O	5/2
O	-5
O	Undefined.

MTH501:Grand Quiz

Quiz Start Time: 11:12 AM, 01 July 2020

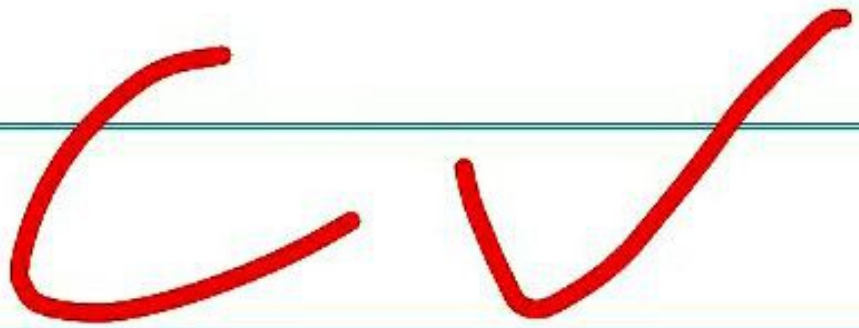
Question # 26 of 30 (Start time: 11:43:47 AM, 01 July 2020)

Total Marks: 1

If M=[3] then which of the following is the determinant of the matrix M?

Select the correct option

- 1
- [1]
- 3
- [3]



Click to Save Answer & Move to Next Question

MTH501:Grand Quiz

Quiz Start Time: 11:12 AM, 01 July 2020

Question # 4 of 30 (Start time: 11:15:18 AM, 01 July 2020)

Total Marks: 1

$$If\ \alpha = \beta,\ then \begin{vmatrix} Cos\alpha & Sin\alpha \\ Sin\beta & Cos\beta \end{vmatrix} = \text{------}.$$

Select the correct option

Reload Math Equations

- $Cos2\alpha$
- $Sin2\alpha$
- 1
- ∞

Click to Save Answer & Move to Next Question

MTH501:Grand Quiz

Quiz Start Time: 11:12 AM, 01 July 2020

Question # 21 of 30 (Start time: 11:37:53 AM, 01 July 2020)

Total Marks: 1

How many Pivot positions the matrix : $\begin{pmatrix} 2 & 3 & 1 \\ 4 & 6 & 2 \end{pmatrix}$ *will have?*

Select the correct option

Reload Math Equations

O	1
O	2
O	3
O	4

Click to Save Answer & Move to Next Question

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MTH501:Grand Quiz

Quiz Start Time: 11:12 AM, 01 July 202

Question # 3 of 30 (Start time: 11:14:19 AM, 01 July 2020)

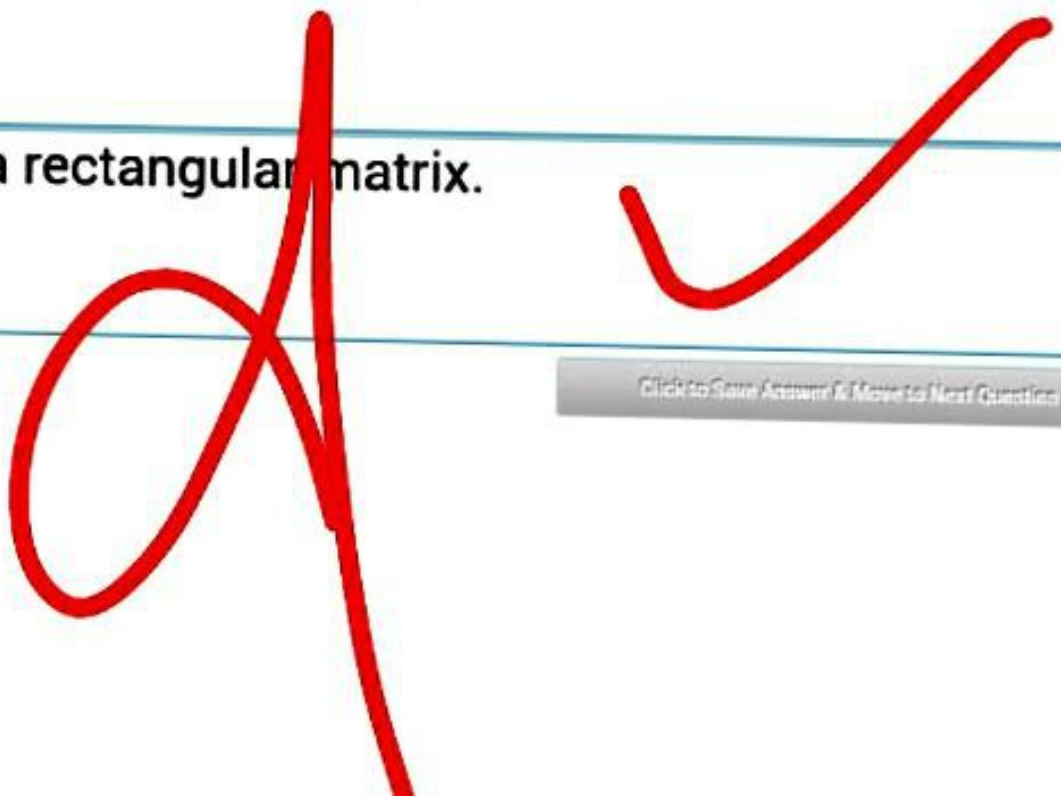
Total Marks:

Why inverse of the matrix A= [1 2] is NOT possible?

Select the correct option

- Because it is a square matrix.
- Because it is a zero matrix.
- Because it is an identity matrix.
- Because it is a rectangular matrix.

Click to Save Answer & Move to Next Question



MTH501:Grand Quiz

Quiz Start Time: 12:03 PM, 01 July 2020

Question # 7 of 30 (Start time: 12:08:47 PM, 01 July 2020)

Total Marks: 1

Let A be the matrix of order 3x2,B be the matrix of order 2x4 and C be the matrix of order 4x5; then which of the following is the order of the matrix ABC?

Select the correct option

- 3x4
- 2x2
- 3x5
- 2x5

Click to Save Answer & Move to Next Question

Question # 13 of 30 (Start time: 12:14:21 PM, 01 July 2020) Total Marks: 1

A matrix whose all entries are zero is called ------

Select the correct option

- a)Unit matrix
- b)Null matrix
- c)Identity matrix
- (a) and (b)

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Quiz Start Time: 11:12 AM, 01 July 2020

Question # 5 of 30 (Start time: 11:16:20 AM, 01 July 2020)

Total Marks: 1

If two rows or columns of a square matrix are identical, then det (A)wil be _____.

Select the correct option

- zero
- non zero
- one
- positive

Click to Save Answer & Move to Next Question

MTH501:Grand Quiz

Quiz Start Time: 12:46 PM, 01 July 2020

Question # 26 of 30 (Start time: 01:23:16 PM, 01 July 2020)

Total Marks: 1

$|A|.|B| = |A.B|$

Select the correct option

- TRUE
- FALSE

Question # 22 of 30 (Start time: 01:56:31 PM, 01 July 2020)

A decomposition of a matrix as a product of two or more matrices is called the matrix _____.

Select the correct option

- composition
- factorization ✓ B
- multiplication
- transformation

Question # 16 of 30 (Start time: 01:47:54 PM, 01 July 2020)

If A is not invertible matrix, then

Select the correct option

○	det(A)=1
○	det(A)=0 ✓ B
○	det(A)≠0
○	det(A)=-1

MTH501:Grand Quiz

Quiz Start Time: 11:12 AM, 01 July 2020

Question # 1 of 30 (Start time: 11:12:10 AM, 01 July 2020)

Total Marks: 1

A decomposition of a matrix as a product of two or more matrices is called the matrix _____.

Select the correct option

- composition
- factorization
- multiplication
- transformation

Click to Save Answer & Move to Next Question

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Question # 21 of 30 (Start time: 01:55:15 PM, 01 July 2020)

If the sum of two matrices A, and B is a zero matrix then A and B are said to be

Select the correct option

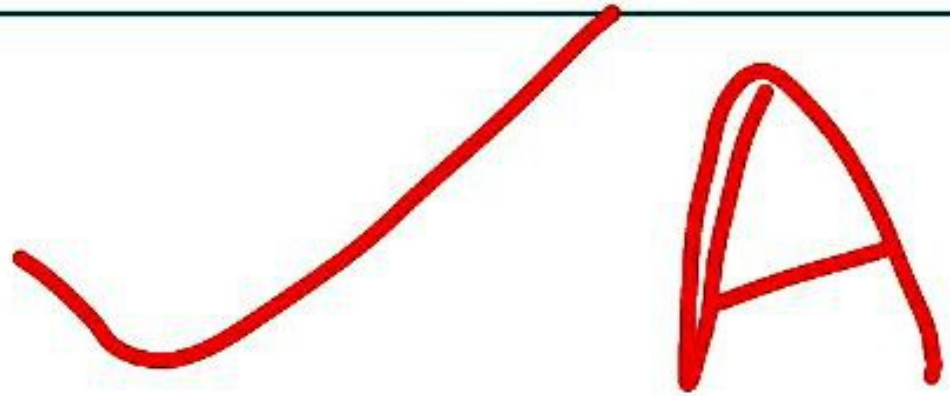
O	Multiplicative inverse of each other,
O	Additive inverse of each other, ✓ B
O	Transpose of each other,
O	Determinant of each other.

Question # 29 of 30 (Start time: 02:05:29 PM, 01 July 2020)

The determinant of a diagonal matrix is the product of the diagonal elements.

Select the correct option

- TRUE



- FALSE

MTH501:Grand Quiz

Question # 10 of 30 (Start time: 01:40:46 PM, 01 July 2020)

$The\ matrix : [x_{1k}]\ , where\ 1 \leqslant k < \infty, is\ an\ example\ of\ - - - -matrix.$

Select the correct option

O	Column
O	Row
O	Square
O	Singular

MTH501:Grand Quiz

Quiz Start Time: 12:03 PM, 01 July 2020

Question # 17 of 30 (Start time: 12:18:54 PM, 01 July 2020)

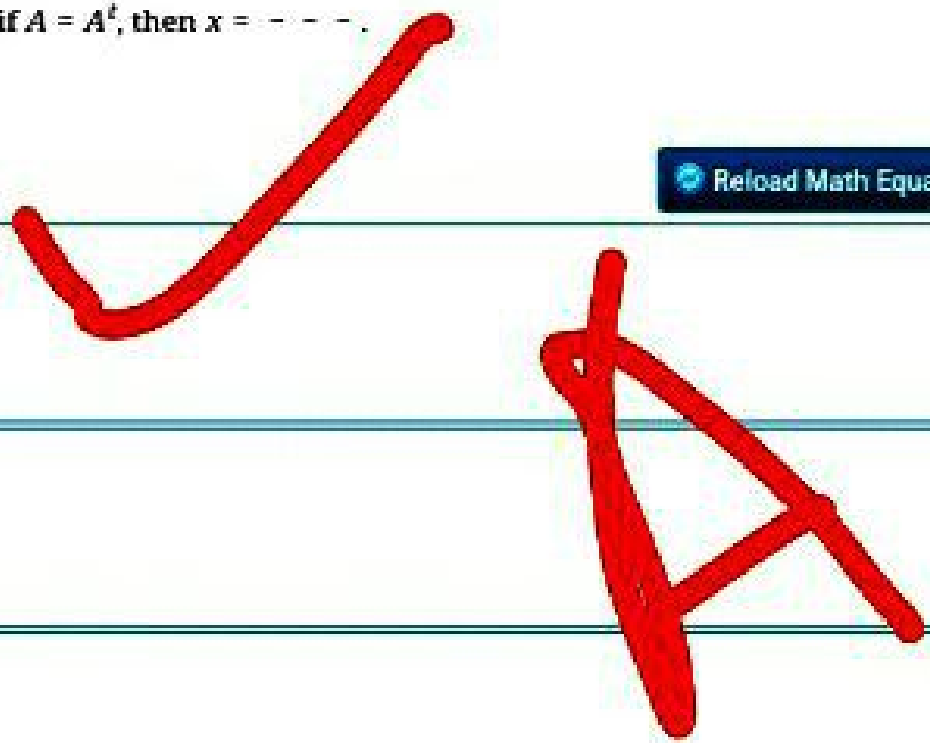
Total Marks: 1

For the matrix: $A = \begin{pmatrix} 4 & x+2 \\ 2x-3 & 1 \end{pmatrix}$, if $A = A^t$, then $x =$ - - - .

Select the correct option

Reload Math Equations

O	5
O	5/2
O	-5
O	Undefined.



Question # 24 of 30 (Start time: 01:59:09 PM, 01 July 2020)

What is the maximum possible number of pivots in a '3 by 3' matrix ?

Select the correct option

O	0
O	1
O	3
O	5

MTH501:Grand Quiz

Quiz Start Time: 11:12 AM, 01 July 2020

Question # 24 of 30 (Start time: 11:41:32 AM, 01 July 2020)

Total Marks: 1

The system of equations:

$$x_1 = 0 = x_2$$

can be expressed in the form - - - - -.

Select the correct option

Reload Math Equations

O	$Ax = 0$
O	$Ax = b$
O	$Ax = 0$ $By = 1$
O	$Ax = 1$ $By = 0$

Click to Save Answer & Move to Next Question

Question # 14 of 30 (Start time: 12:15:13 PM, 01 July 2020)

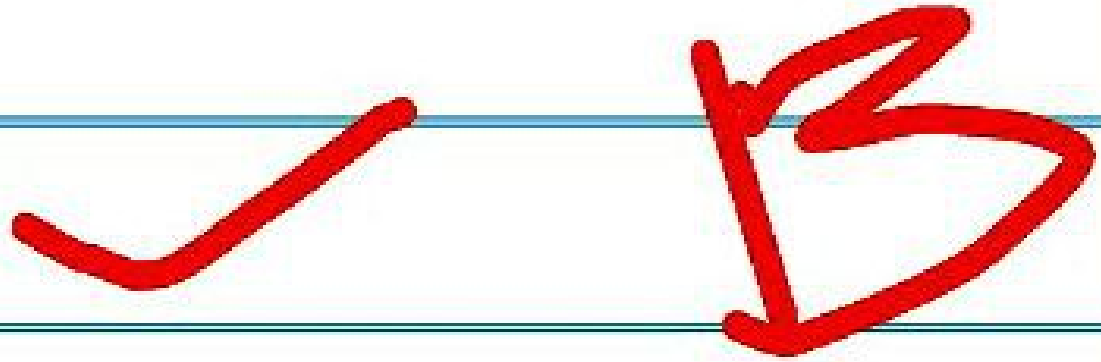
Total Marks: 1

The determinant of a square matrix $A = \begin{bmatrix} 3 & 2 \\ 4 & 5 \end{bmatrix}$ is

Select the correct option

Reload Math Equations

O	0
O	7
O	8
O	15



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Quiz Start Time: 12:03 PM, 01 July 2020

Question # 14 of 30 (Start time: 12:15:13 PM, 01 July 2020)

Total Marks: 1

The determinant of a square matrix $A = \begin{bmatrix} 3 & 2 \\ 4 & 5 \end{bmatrix}$ is

Select the correct option

Reload Math Equations

- 0
- 7
- 8
- 15

MTH501:Grand Quiz

Quiz Start Time: 11:12 AM, 01 July 2020

Question # 6 of 30 (Start time: 11:17:33 AM, 01 July 2020)

Total Marks: 1

Which of the following is an example of Matrix in reduced Echelon form?

Select the correct option

Reload Math Equations

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

Click to Save Answer & Move to Next Question

MTH501:Grand Quiz

Quiz Start Time: 11:12 AM, 01 July 2020

Question # 11 of 30 (Start time: 11:23:50 AM, 01 July 2020)

Total Marks: 1

Inverse of a matrix is given by

Select the correct option

Reload Math Equations

O	$A^{-1} = \frac{1}{det.A} A^{-1}$
O	$A^{-1} = \frac{1}{det.A} adj(A)$

Click to Save Answer & Move to Next Question

B

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Quiz Start Time: 11:12 AM, 01 July 2020

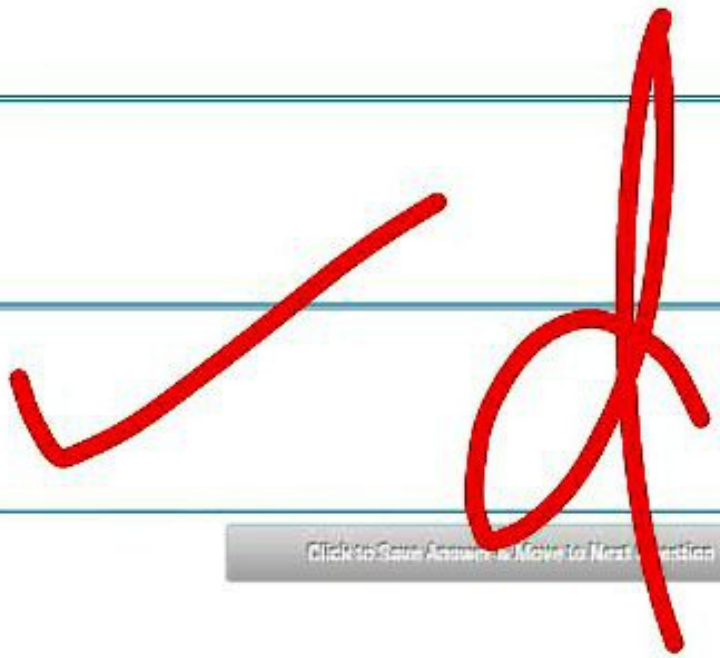
Question # 25 of 30 (Start time: 11:42:54 AM, 01 July 2020)

Total Marks: 1

Let A be the matrix of order 2x3 and B be the matrix of order 3x5 , then which of the following is the order of the matrix AB ?

Select the correct option

- 2x3
- 3x5
- 3x3
- 2x5



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Quiz Start Time: 12:03 PM, 01 July 2020

Question # 18 of 30 (Start time: 12:20:29 PM, 01 July 2020)

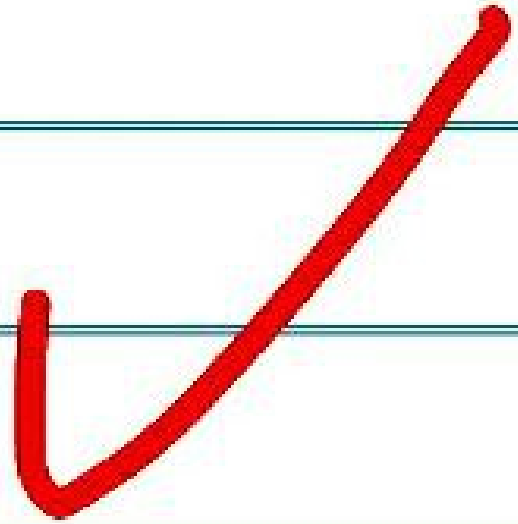
Total Marks: 1

Which of the following is Row - Equivalent of $\begin{pmatrix} 3 & 4 \\ 1 & 2 \end{pmatrix}$?

Select the correct option

Reload Math Equations

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



Click to Save Answer & Move to Next Question

Question # 8 of 30 (Start time: 12:57:47 PM, 01 July 2020)

If the order of matrices A, B and C are

$$2 \times 3, 3 \times 15 \text{ and } 15 \times 100$$

respectively, then the order of Product ABC= ——.

Select the correct option

O	200
O	2×100
O	100×2
O	405000

Which of the following is an example of Matrix in Echelon form?

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

B

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

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

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

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Question # 13 of 30 (Start time: 11:26:37 AM, 01 July 2020)

Total Marks:

Non square matrices do not have inverse

Select the correct option

- True
- False

MTH501:Grand Quiz

Quiz Start Time: 11:12 AM, 01 July 2020

Question # 7 of 30 (Start time: 11:18:29 AM, 01 July 2020)

Total Marks: 1

Which of the following is an example of Matrix in Echelon form?

Select the correct option

Reload Math Equations

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

Click to Save Answer & Move to Next Question

Question # 18 of 30 (Start time: 11:34:22 AM, 01 July 2020)

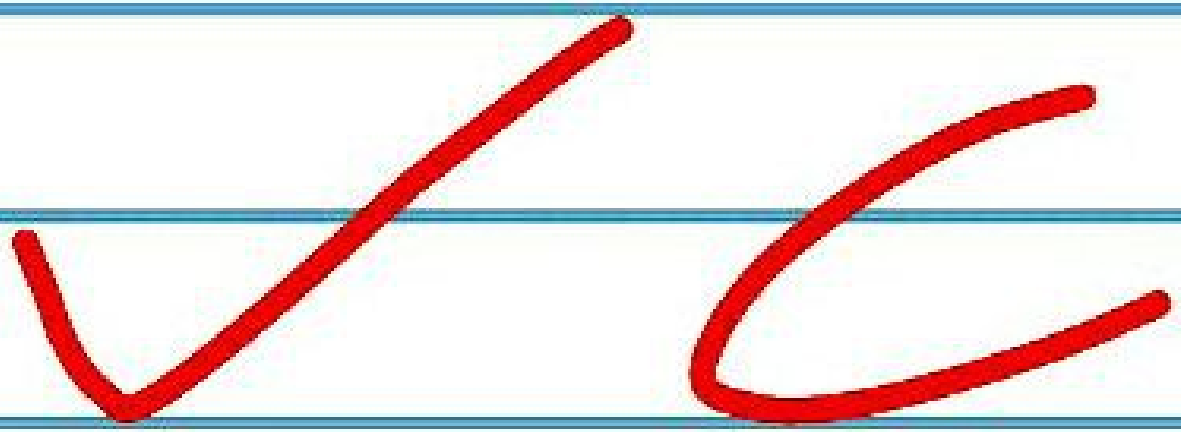
Total Marks: 1

Which of the following property does not hold for matrix multiplication?

Select the correct option

Reload Math Equations

- Associative
- Distributive
- Commutative
- Additive inverse



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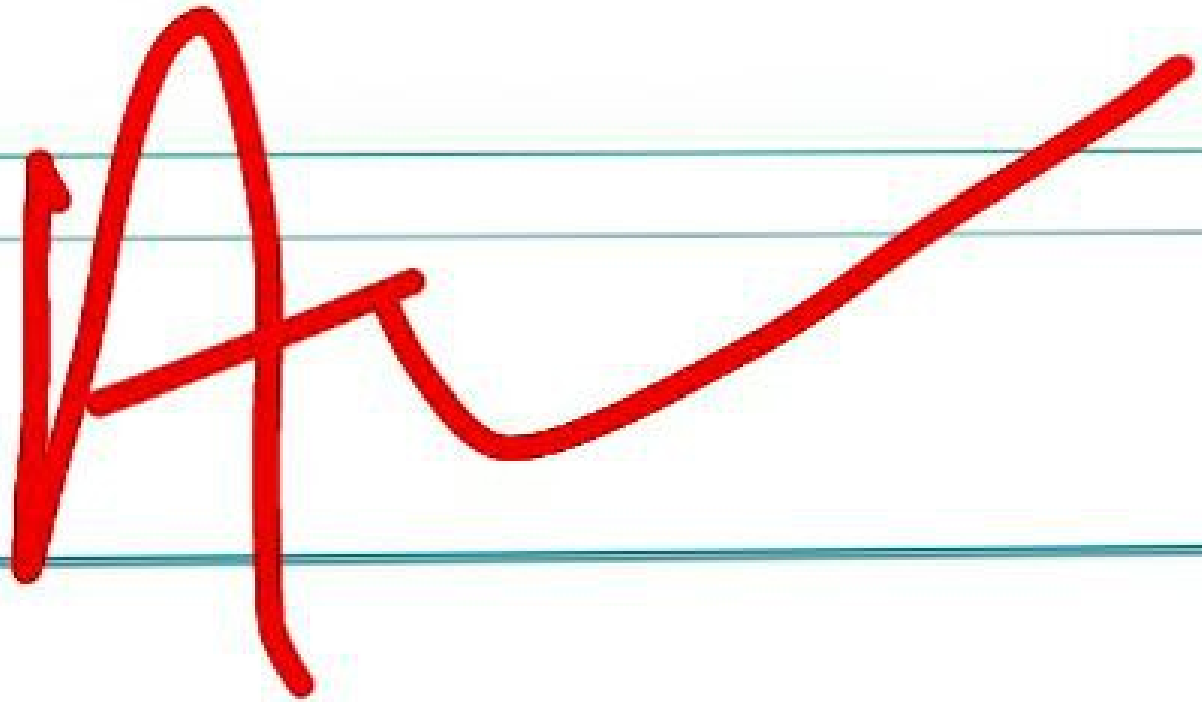
Question # 20 of 30 (Start time: 11:36:52 AM, 01 July 2020)

Total Marks: 1

A determinant does not change if we add a multiple of a row to another row.



Select the correct option

- TRUE
- FALSE

Question # 11 of 30 (Start time: 12:12:33 PM, 01 July 2020)

Total Marks:

What is the maximum possible number of pivots in a 4x6 matrix ?

Select the correct option

- 4
- 6
- 8
- 10

inverse of the matrix A= [1 2] is NOT possible?

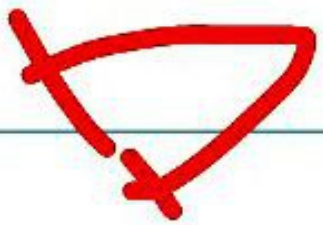
rect option

ecause it is a square matrix.

ecause it is a zero matrix.

ecause it is an identity matrix.

ecause it is a rectangular matrix.



BEST OF LUCK ! ☺