

Question 11

Not yet answered

Marked out of
9.00

Flag question

Let $A = \begin{bmatrix} 2 & 3 & -1 \\ 1 & 0 & 4 \\ 5 & 2 & 3 \end{bmatrix}$

and $B=3A$; $C=B+2A-5I$. Find matrix D such that $D=2A+B-C$

Assume I is the identity matrix.

$$D = \begin{bmatrix} a & b & c \\ d & e & f \\ g & h & i \end{bmatrix}$$

$a = : 5$

$b = : 0$

$c = : 0$

$d = : 0$

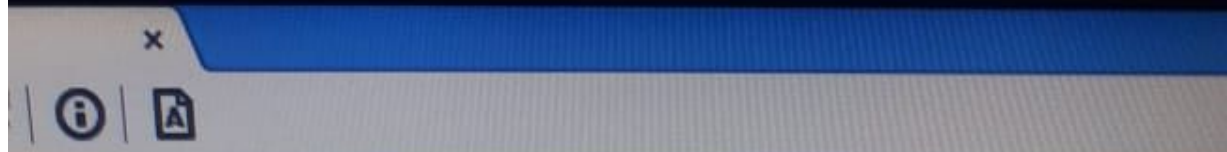
$e = : 5$

$f = : 0$

$g = : 0$

$h = : 0$

$i = : 5$



Online Exams

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Indicate whether following matrix operations are commutative

Matrix Addition

Choose...

Matrix Multiplication

Choose...

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$$A = \begin{bmatrix} 3 & 2 \\ 5 & 4 \end{bmatrix}$$

Find the determinant of the above matrix.:

Find the inverse of the matrix A. $A^{-1} = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$

a = :

b = :

c = :

d = :

(Write your answer with one decimal place)



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If $|A| = 128$ then find the cofactor matrix of A.

$$A = \begin{bmatrix} x & 5 & 7 \\ 2 & 4 & 1 \\ -2 & 8 & 3 \end{bmatrix}$$

C_{11}

C_{12}

C_{13}

C_{21}

C_{22}

Question 13

Not yet answered

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9.00

Flag question

If $|A| = 128$ then find the cofactor matrix of A.

$$A = \begin{bmatrix} x & 5 & 7 \\ 2 & 4 & 1 \\ -2 & 8 & 3 \end{bmatrix}$$

C_{11}

C_{12}

C_{13}

C_{21}

C_{22}

Find the values of the resulting matrix.

$$\begin{bmatrix} 1 & 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & -1 & 1 & 0 \\ 0 & 0 & 2 & 4 & 2 & 8 \end{bmatrix}$$



$$\begin{bmatrix} 1 & 0 & 0 & a & b & c \\ 0 & 1 & 0 & -1 & 1 & 0 \\ 0 & 0 & 1 & d & e & f \end{bmatrix}$$

a = Choose...

b = Choose...

c = Choose...

d = Choose...

e = Choose...

f = Choose...



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Question 14

Not yet answered

Marked out of 5.00

Flag question

Assume A is a symmetric Matrix.

$$A = \begin{bmatrix} -1 & 0 & 2 & 1 \\ a & 4 & 3 & d \\ b & e & 0 & 3 \\ c & -2 & 3 & 2 \end{bmatrix}$$

a = Choose...

b = Choose...

c = Choose...

d = Choose...

e = Choose...

Quiz navigation

1	2	3
4	5	6
7	8	9
10	11	12
13	14	15
16	17	18
19	20	21
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28	29	30
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Finish attempt

Time left 00:58

End Page

Question 1

Not yet answered

Marked out of
5.00

Flag question

$$A = \begin{bmatrix} 2 & -1 \\ 2 & 3 \end{bmatrix}$$

Find the determinant of the above matrix.: Find the inverse of the matrix A. $A^{-1} = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$ a = : b = : c = : d = :

(Write your answer with three decimal place)

Let A be a 2x2 matrix. Find $B = A^2 + 2A$
Let

$$A = \begin{bmatrix} -1 & -2 \\ 3 & 1 \end{bmatrix}$$

Let

$$B = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$$

Answer for a = : -7

Answer for b = : -2

Answer for c = : 6

Answer for d = : -10



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Answered
t of
Question

Let A be a 2x2 matrix. Find $B = A^2 + 2A$
Let

$$A = \begin{bmatrix} -1 & 2 \\ 3 & -1 \end{bmatrix}$$

Let

$$B = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$$

Answer for a = :

Answer for b = :

Answer for c = :

Answer for d = :

Question 15

Not yet answered

Marked out of 5.00

Flag question

Find the values of the resulting matrix.

$$\begin{bmatrix} 1 & 0 & 0 & 1 & 1 & 0 \\ -1 & 1 & 0 & -1 & 0 & 1 \\ -2 & 0 & 1 & 2 & 1 & 1 \end{bmatrix}$$



$$\begin{bmatrix} 1 & 0 & 0 & 1 & 1 & 0 \\ 0 & 1 & 0 & a & b & c \\ 0 & 0 & 1 & d & e & f \end{bmatrix}$$

 $a =$ Choose... $b =$ Choose... $c =$ Choose... $d =$ Choose... $e =$ Choose... $f =$ Choose...

Quiz navigation

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32

Finals attempt

Time left 00:16



21

answered

out of

question

If $|A| = 128$ then find the cofactor matrix of A.

$$A = \begin{bmatrix} x & 5 & 7 \\ 2 & 4 & 1 \\ -2 & 8 & 3 \end{bmatrix}$$

C_{11}

C_{12}

C_{13}

C_{21}

C_{22}

C_{23}

Question 20

Not yet answered

Marked out of
6.00

Flag question

Find the values of the resulting matrix.

$$\begin{bmatrix} 1 & 0 & 0 & 1 & 1 & -1 \\ -1 & 1 & -1 & 2 & 1 & 0 \\ 0 & 0 & 1 & 3 & 2 & -1 \end{bmatrix}$$



$$\begin{bmatrix} 1 & 0 & 0 & 1 & 1 & -1 \\ 0 & 1 & 0 & a & b & c \\ 0 & 0 & 1 & d & e & f \end{bmatrix}$$

 $a =$ $b =$ $c =$ $d =$ $e =$ $f =$

Assume A is a symmetric Matrix.

$$A = \begin{bmatrix} 0 & 1 & 2 & 3 \\ a & -1 & b & c \\ d & 0 & 3 & 4 \\ e & 2 & 4 & 1 \end{bmatrix}$$

a = Choose... ▼

b = Choose... ▼

c = Choose... ▼

d = Choose... ▼

e = Choose... ▼



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Answered
t of
Question

$$A = \begin{bmatrix} 2 & 2 \\ 2 & 3 \end{bmatrix}$$

Find the determinant of the above matrix.:

Find the inverse of the matrix A. $A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$

a = :

b = :

c = :

d = :

(Write your answer with one decimal place)



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Question 32

Not yet answered

Marked out of 10

Flag question

Following adjacency matrix represents an undirected graph.

$$\begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 2 \\ 1 & 1 & 0 & 3 \\ 1 & 2 & 3 & 1 \end{bmatrix}$$

Find the following.

Number of loops Number of edges Number of vertices Total degree



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Question 14

Not yet answered

Marked out of 5.00

Flag question

Assume A is a symmetric Matrix.

$$A = \begin{bmatrix} -1 & 0 & 2 & 1 \\ a & 4 & 3 & d \\ b & e & 0 & 3 \\ c & -2 & 3 & 2 \end{bmatrix}$$

a = Choose...

b = Choose...

c = Choose...

d = Choose...

e = Choose...

Quiz navigation

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10	11	12
13	14	15
16	17	18
19	20	21
22	23	24
25	26	27
28	29	30
31	32	33

Finish attempt

Time left 00:58

End Page

Question 15

Not yet answered

Marked out of 5.00

Flag question

Find the values of the resulting matrix.

$$\begin{bmatrix} 1 & 0 & 0 & 1 & 1 & 0 \\ -1 & 1 & 0 & -1 & 0 & 1 \\ -2 & 0 & 1 & 2 & 1 & 1 \end{bmatrix}$$



$$\begin{bmatrix} 1 & 0 & 0 & 1 & 1 & 0 \\ 0 & 1 & 0 & a & b & c \\ 0 & 0 & 1 & d & e & f \end{bmatrix}$$

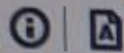
 $a =$ Choose... $b =$ Choose... $c =$ Choose... $d =$ Choose... $e =$ Choose... $f =$ Choose...

Quiz navigation

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32

Finals attempt

Time left 00:16



Online Exams

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In an examination there are three multiple choice questions and each question has 4 choices with one correct answer. Number of ways in which a student can fail to get all answers correct is

(No spaces should be there in the answer)

Answer:

Find the values of the resulting matrix.

$$\begin{bmatrix} 1 & 1 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & -1 & 1 & 0 \\ 0 & 0 & 2 & 4 & 2 & 8 \end{bmatrix}$$



$$\begin{bmatrix} 1 & 0 & 0 & a & b & c \\ 0 & 1 & 0 & -1 & 1 & 0 \\ 0 & 0 & 1 & d & e & f \end{bmatrix}$$

a = Choose...

b = Choose...

c = Choose...

d = Choose...

e = Choose...

f = Choose...



Find how many **Govisetha Tickets** can be Printed in a one Draw if it includes one capital letter and 4 numbers. (Any number from 00 - 99)
Assume that the numbers cannot be repeated.



Answer:

Question 13

Not yet answered

Marked out of
9.00

Flag question

If $|A| = 128$ then find the cofactor matrix of A.

$$A = \begin{bmatrix} x & 5 & 7 \\ 2 & 4 & 1 \\ -2 & 8 & 3 \end{bmatrix}$$

C_{11}

C_{12}

C_{13}

C_{21}

C_{22}



21

answered

out of

question

If $|A| = 128$ then find the cofactor matrix of A.

$$A = \begin{bmatrix} x & 5 & 7 \\ 2 & 4 & 1 \\ -2 & 8 & 3 \end{bmatrix}$$

C_{11}

C_{12}

C_{13}

C_{21}

C_{22}

C_{23}



Online Exams

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Following adjacency matrix represents an undirected gra

$$\begin{bmatrix} 0 & 1 & 1 & 1 \\ 1 & 1 & 1 & 2 \\ 1 & 1 & 0 & 3 \\ 1 & 2 & 3 & 1 \end{bmatrix}$$

Find the following.

Number of loops

2



Number of edges

10



Number of vertices

4



Total degree

Choose...



Question 20

Not yet answered

Marked out of
6.00

Flag question

Find the values of the resulting matrix.

$$\begin{bmatrix} 1 & 0 & 0 & 1 & 1 & -1 \\ -1 & 1 & -1 & 2 & 1 & 0 \\ 0 & 0 & 1 & 3 & 2 & -1 \end{bmatrix}$$



$$\begin{bmatrix} 1 & 0 & 0 & 1 & 1 & -1 \\ 0 & 1 & 0 & a & b & c \\ 0 & 0 & 1 & d & e & f \end{bmatrix}$$

 $a =$ $b =$ $c =$ $d =$ $e =$ $f =$



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If $|A| = 128$ then find the cofactor matrix of A.

$$A = \begin{bmatrix} x & 5 & 7 \\ 2 & 4 & 1 \\ -2 & 8 & 3 \end{bmatrix}$$

C_{11}

C_{12}

C_{13}

C_{21}

C_{22}

Question 19

Not yet answered

Marked out of 1.00

Flag question

Simplify the following boolean expression

$$ABC + \bar{A}BC + A\bar{B}C + A\bar{B}\bar{C}$$

Select one:

☐ $AC + \bar{B}C$

☐ $A\bar{C} + \bar{B}C$

☐ $AC + B\bar{C}$

☐ $A\bar{C} + B\bar{C}$

☐ None of the above

Consider the following degree sequence.

7, 6, 5, 4, 4, 2, 2

Is it possible to draw a graph with the above degree sequence?

No

Does this graph have an Euler Path?

Choose...

Does this graph have an Euler circuit?

Choose...

How many edges are in the above graph?

Choose...



How many different license plates can be made if each plate contains a sequence of three uppercase English letters followed by three digits (and no sequences of letters are prohibited, even if they are obscene)?

Answer:

Consider the following system of linear equations.

$$x + y - z = -1$$

$$2x + y + 2z = 0$$

$$x - y - 2z = -6$$

Represent the above equations in $A\underline{x} = \underline{b}$ form.

Assume that you solve this using Cramer's Rule.

Then
$$x = \frac{|A_1|}{|A|}$$

Answer for $|A_1|$

Choose...

Answer for $|A|$

Choose...



If $|A| = 64$ then find the cofactor matrix of A.

$$A = \begin{bmatrix} 0 & 2 & 5 \\ 4 & x & 3 \\ 2 & 1 & -4 \end{bmatrix}$$

C_{11}

C_{12}

C_{13}

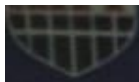
C_{21}

C_{22}

C_{23}

C_{31}

C_{32}



Number of
of
question

Let $A = \begin{bmatrix} 4 & 3 & 1 \\ 5 & 0 & 6 \\ 5 & 2 & 3 \end{bmatrix}$

and $B=3A$; $C=B+2A-5I$. Find matrix D such that $D=2A+B-C$.

Assume I is the identity matrix.

$$D = \begin{bmatrix} a & b & c \\ d & e & f \\ g & h & i \end{bmatrix}$$

a = :

b = :

c = :

d = :

e = :

f = :

g = :

h = :

Euler path & circuit

path
REDMI NOTE 8 PRO
AI QUAD CAMERA

cover all edges

hamilton path

* It should cover



12

answered

out of

question

Find the values of the resulting matrix.

$$\begin{bmatrix} 1 & 0 & 0 & 1 & 0 & -1 \\ -1 & 1 & 2 & -2 & 1 & 0 \\ 0 & 0 & 1 & 1 & 2 & 1 \end{bmatrix}$$



$$\begin{bmatrix} 1 & 0 & 0 & 1 & 0 & -1 \\ 0 & 1 & 0 & a & b & c \\ 0 & 0 & 1 & d & e & f \end{bmatrix}$$

 $a =$ $b =$ $c =$ $d =$ $e =$ $f =$

If $|A| = -35$ then find the cofactor matrix of A.

$$A = \begin{bmatrix} 1 & -2 & 2 \\ 3 & 4 & 5 \\ 2 & 1 & x \end{bmatrix}$$

C_{11}

C_{12}

C_{13}

C_{21}

C_{22}

C_{23}

C_{31}



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N Refers to all the positive integers. (Called as Natural Numbers)

$$f: N \rightarrow N \quad f(n) = x^4 - 2x + 1$$

Is f a One to one function?

Choose... ▼

Is f an onto function?

Choose... ▼

Does f has an inverse function?

Choose... ▼



Question 4

Not yet answered

Marked out of 10

0

Flag question

Let A be a 2x2 matrix. Find $B = A^2 + 2A$
Let

$$A = \begin{bmatrix} -1 & 2 \\ -3 & 1 \end{bmatrix}$$

Let

$$B = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$$

Answer for a = :

Answer for b = :

Answer for c = :

Answer for d = :



Number of
of
question

$$A = \begin{bmatrix} 3 & 2 \\ 5 & 4 \end{bmatrix}$$

Find the determinant of the above matrix.:

Find the inverse of the matrix A. $A^{-1} = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$

a = :

b = :

c = :

d = :

(Write your answer with one decimal place)

answered
out of
question

If $|A| = 43$ then find the cofactor matrix of

$$A = \begin{bmatrix} 1 & 2 & 7 \\ 4 & -3 & x \\ 2 & 2 & 5 \end{bmatrix}$$

$$C_{11} \quad -15 \quad \blacktriangledown$$

$$C_{12} \quad -20 \quad \blacktriangledown$$

$$C_{13} \quad 14 \quad \blacktriangledown$$

$$C_{21} \quad 4 \quad \blacktriangledown$$

$$C_{22} \quad -9 \quad \blacktriangledown$$

$$C_{23} \quad 2 \quad \blacktriangledown$$

Question 18

Not yet answered

Marked out of
4.00

Flag question

Let A be a 2x2 matrix. Find $B = A^2 + 2A$

Let

$$A = \begin{bmatrix} -1 & 2 \\ -3 & 1 \end{bmatrix}$$

Let

$$B = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$$

Answer for a = : Answer for b = : Answer for c = : Answer for d = :



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Question 6

Not yet answered

Marked out of
9.00

Flag question

Let $A = \begin{bmatrix} 5 & -2 & 1 \\ 4 & 1 & 0 \\ 1 & -2 & 2 \end{bmatrix}$

and $B=3A$; $C=B+2A-5I$. Find matrix D such that $D=2A+B-C$.

Assume I is the identity matrix.

$$D = \begin{bmatrix} a & b & c \\ d & e & f \\ g & h & i \end{bmatrix}$$

a = :

b = :

c = :

d = :

e = :

f = :

g = :

h = :

i = :

Let $A = \begin{bmatrix} 4 & 3 & 1 \\ 5 & 0 & 6 \\ 5 & 2 & 3 \end{bmatrix}$

and $B=3A$; $C=B+2A-5I$. Find matrix D such that $D=2A+$

Assume I is the identity matrix.

$$D = \begin{bmatrix} a & b & c \\ d & e & f \\ g & h & i \end{bmatrix}$$

$a = :$

$b = :$

$c = :$

$d = :$

$e = :$

$f = :$

$g = :$

$h = :$