



Online Exams

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Flag question

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

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

$$\begin{matrix} -15 & -20 & 14 \\ -2 & -9 & 2 \\ -21 & 28 & -11 \end{matrix}$$

C₁₁

Choose... ▾

C₁₂

Choose... ▾

C₁₃

Choose... ▾

C₂₁

Choose... ▾

C₂₂

Choose... ▾



Question 28
Not yet answered
Marked out of
4.00

Flag question

Number of edges in graph G is 8. Assume that there are 4 vertices with equal degree values.

Total degree = :

Degree of a one vertex = :

Does an Euler Circuit exist in G?

Yes

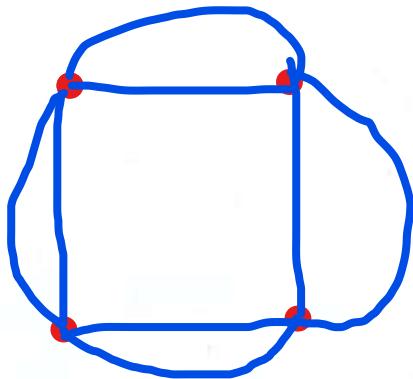
No

Does an Euler Path exist in G?

Yes

No

Number of components of G =





$k : \mathbb{R} \rightarrow \mathbb{R}; k(x) = 5^x$

Is the function one to one ?

Yes

No

Is the function onto?

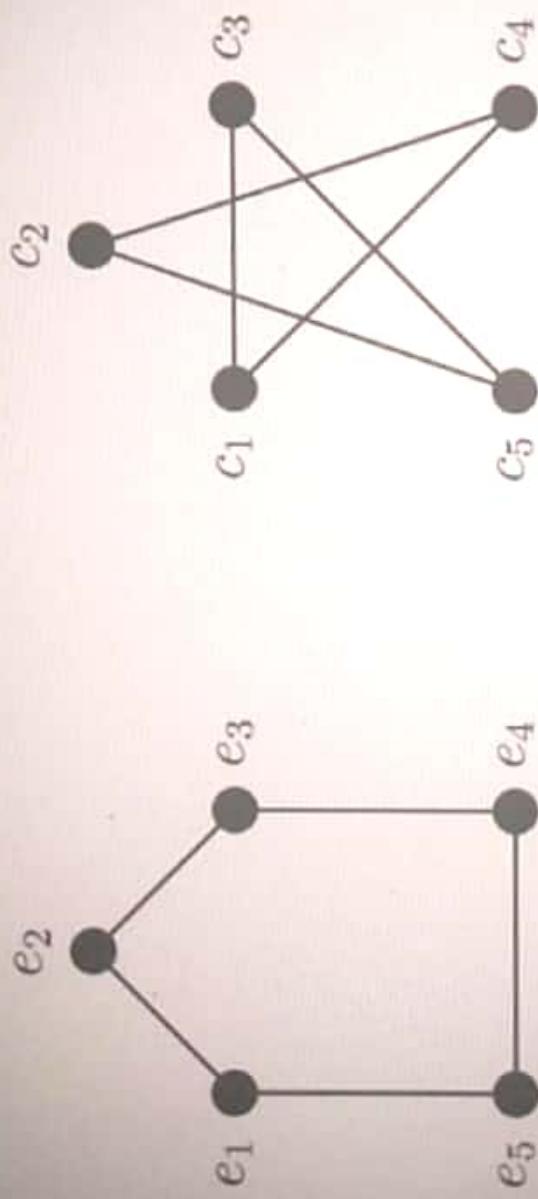
Yes

No

Question 27

Not yet answered
Marked out of
1.00
 Flag question

What is the correct statement about the following 2 graphs.



Select one:

- Two graphs are isomorphic
- Two graphs are not isomorphic
- The two graphs have different degree sequences
- None of the above



$$k : \mathbb{R} \rightarrow \mathbb{R}; k(x) = 5^x$$

Is the function one to one ?

Yes

No

Is the function onto?

Yes

No

How many numbers not exceeding 10000 can be made using the digits
2,4,5,6,8 if repetition of digits is allowed?

Answer = :

780

$$5 + 25 + 125 + 625$$



Online Exams

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For the word "COPYING", if the vowels are always together then how many distinct arrangements are possible?

Answer = :

42

Online Exams

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$h : [2, \infty) \rightarrow \mathbb{R}$ defined by $h(x) = \sqrt{x - 2}$

Is the function one to one ?

Yes

No

Is the function onto?

Yes

No

Find the following definite integral.

$$\int_{2}^{4} |3x - 4| dx$$

(Please remove spaces from the answer)

Answer: 36



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4

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it of
question

$\mathbb{R} \rightarrow \mathbb{R}$, $p(x) = |1 - 3x|$.

Is the function one to one ?

Yes

No

Is the function onto?

Yes

No

Find the following definite integral.

$$\int_{1}^{3} |5x - 4| dx = 25/2$$

(Please remove spaces from the answer)

Answer:

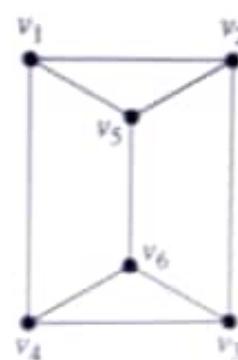
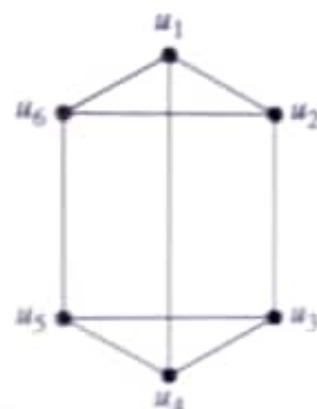
Question 27

Not yet answered

Marked out of
1.00

Flag question

What is the correct statement about the following 2 graphs.



Select one:

- Two graphs are isomorphic
- Two graphs are not isomorphic
- The two graphs have different degree sequences
- None of the above

≡ Quiz navigation

DECLARATION



EXAM QUESTIONS

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

Finish attempt

Time left 0:08:46

$$f(x) = \frac{x^2 + 1}{5x - 3}$$

Find $f'(-1)$.

Hint : Differentiate the function and Substitute -

(Write your answer as a fraction. Eg: 23/2
No spaces should be in the answer)

Answer: **3/32**



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In a Cricket tournament, there are 10 matches. If each team plays one match with every other team, the number of teams is : **5**



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In how many ways can Kamal choose a consonant and a vowel from the letters of the word ALLAHABAD?

Answer = : 4

$$3x - 5y = 1$$

$$4x - 3y = 5$$

Represent the above equations in $Ax = b$ form.

Let $\text{adj } A = \begin{bmatrix} p & q \\ r & s \end{bmatrix}$ $\text{adj } A = \begin{bmatrix} -3 & 5 \\ -4 & 3 \end{bmatrix}$

Find the Following.

$$|A| = : 11$$

$$p = : -3$$

$$q = : 5$$

$$x = 2$$

$$y = 1$$

$$r = : -4$$

$$s = : 3$$

$$x = : 2$$

$$y = :$$

Consider the following function.

$$g: R \rightarrow R \quad g(x) = \frac{(-2x + 1)}{3}$$

Find $g^{-1}(-3)$

Hint : Find the inverse of g and substitute -3.

Answer: 5

16

answered
out of
question

$$\begin{bmatrix} 1 & 0 & 0 & 1 & -1 & 2 \\ 2 & 1 & 0 & -1 & 2 & 1 \\ 0 & 0 & 3 & 6 & -3 & 18 \end{bmatrix}$$



$$r2' = r2 - 2 * r1$$

$$r3' = r3 / 3$$

$$\begin{bmatrix} 1 & 0 & 0 & 1 & -1 & 2 \\ 0 & 1 & 0 & a & b & c \\ 0 & 0 & 1 & d & e & f \end{bmatrix} \quad \begin{matrix} 1 & -1 & 2 \\ -3 & 4 & -3 \end{matrix}$$

Find the values of a, b, c, d, e and f.

$$a = : -3$$

$$b = : 4$$

$$c = : -3$$

$$d = : 2$$

$$e = : -1$$

$$f = : 6$$

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

$$C_{11} \quad \boxed{-5} \quad \cdot$$

$$C_{12} \quad \boxed{10} \quad \cdot$$

$$C_{13} \quad \boxed{-5} \quad \cdot$$

$$C_{21} \quad \boxed{2} \quad \cdot$$

$$C_{22} \quad \boxed{-4} \quad \cdot$$

$$C_{23} \quad \boxed{-5} \quad \cdot$$

$$C_{31} \quad \boxed{-15} \quad \cdot$$

$$C_{32} \quad \boxed{1} \quad \cdot$$

Select the symmetric matrix from the following choices.

Select one:

$$\begin{bmatrix} -12 & 16 & 13 & 19 & 26 & 0 & 2 \\ 24 & 5 & -19 & 29 & -19 & 16 & -10 \\ 21 & -26 & 16 & 13 & -17 & 16 & 7 \\ 12 & 20 & 4 & 22 & 18 & -3 & -12 \\ 17 & -26 & -9 & 10 & -15 & 6 & 11 \\ -9 & 23 & 8 & 6 & -3 & 8 & 8 \\ 10 & -18 & 0 & -21 & 19 & 15 & 4 \end{bmatrix}$$

X

$$\begin{bmatrix} 18 & 8 & 19 & -18 & 16 & 9 & -1 \\ -13 & 12 & 13 & 17 & -19 & -13 & 15 \\ -15 & -14 & -19 & -5 & 9 & 19 & -8 \\ 10 & 1 & -9 & -10 & 18 & 13 & 13 \\ -15 & -14 & -19 & -5 & 9 & 19 & -8 \\ -13 & 12 & 13 & 17 & -19 & -13 & 15 \\ 18 & 8 & 19 & -18 & 16 & 9 & -1 \end{bmatrix}$$

X

$$\begin{bmatrix} 4 & -16 & 6 & -2 & 6 & -16 & 4 \\ 0 & -11 & 3 & 3 & 3 & -11 & 0 \\ 12 & 2 & -7 & 13 & -7 & 2 & 12 \\ 7 & -12 & -18 & -17 & -18 & -12 & 7 \end{bmatrix}$$

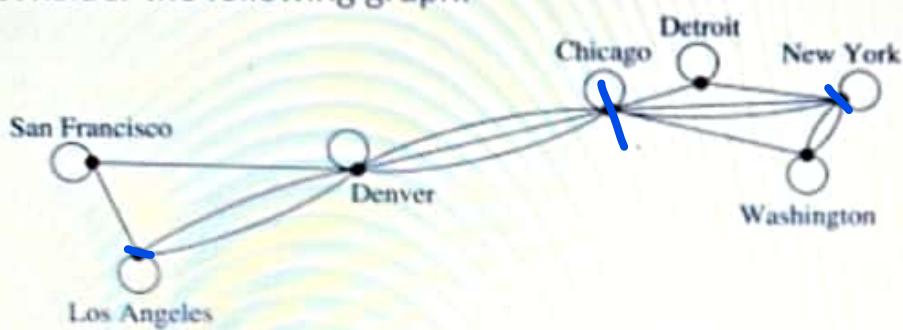
X



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Consider the following graph.



Determine whether the above graph has the followings.

Hamiltonian Path Yes



Hamiltonian Circuit No



Euler Path No



Euler Circuit No



Let $A = \begin{bmatrix} 1 & 2 \\ -5 & 4 \end{bmatrix}$ and $B = \begin{bmatrix} 3 & 0 \\ -1 & 7 \end{bmatrix}$

Find $D = B^2 + AB - I$

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

$$a = : \begin{bmatrix} 9 \end{bmatrix} \quad \begin{matrix} 9 & 14 \\ -29 & 76 \end{matrix}$$

$$b = : \begin{bmatrix} 14 \end{bmatrix}$$

$$c = : \begin{bmatrix} -29 \end{bmatrix}$$

$$d = : \begin{bmatrix} 76 \end{bmatrix}$$



Find the following definite integral.

$$\int_{-1}^2 \left(\frac{1}{x^2} - 3\right) dx.$$

(Keep your answer with a one decimal place)

Answer: -8.5

-21/2 = -10.5

Question 20

Not yet answered

Marked out of
5.00 Flag 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 = : 2 2

2 -1
-5/2 3/2

b = : -1 -1

c = : 1 -2.5

d = : 1.5 1.5

(Write your answer with one decimal place)

Consider the following linear system.

$$x + y = 3$$

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

$$3x - y + 3z = 1$$

$$x = \frac{|A_1|}{|A|} \quad y = \frac{|A_2|}{|A|} \quad z = \frac{|A_3|}{|A|}$$

Find the following.

$$|A_1| = : -5 \quad -5$$

$$|A_2| = : -10$$

$$|A_3| = : 0$$

$$|A| = : -5$$

$$x = : 1$$

$$y = : 2$$

$$z = : 0$$

l.

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Consider the following function.

$$f(x) = x^4 - x^2 + 20$$

1. Find $f'(-4)$: -17 **-328**

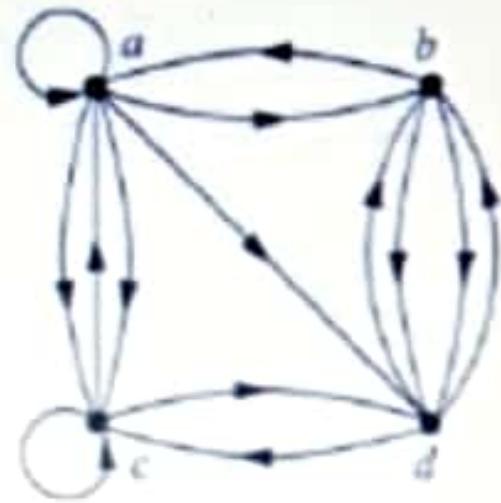
2. Find the definite integral of $f(x)$ from -3 to 3 : 199.2 **$-996/5 = 199.2$**
(Round your answer to one decimal place)

Find the determinant of A.

$$A = \begin{bmatrix} 2 & -3 & 5 \\ -3 & 6 & 2 \\ 1 & -2 & 5 \end{bmatrix}$$

Answer: 17 17

Consider the following Directed Graph.



Number of Edges = : 14

14

Total Indegree = : 14

14

Total Outdegree = : 1



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Find $f'(2)$.

$$f(x) = 3/x^4 - 2x^2 + 6x - 7.$$

(Write your answer as a fraction. Eg: 4/5, No spaces in the answer)

Answer: -115 **-19/8** I

Following adjacency matrix represents a graph.

1	0	0	2
1	1	0	1
0	1	0	1
0	0	0	1

Find the following.

This graph is a

- Undirected Graph
- Directed Graph

Number of Loops = : 3

Number of Edges = : 9

Number of Vertices = : 4



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In how many ways can Kamal choose a consonant and a vowel from the letters of the word ALLAHABAD?

Answer = : 4

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on 9
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out of
g question

Consider the following raw operation and find the values

$$\left[\begin{array}{cccc} 1 & -2 & 1 & 3 \\ 2 & 4 & 0 & 9 \\ 3 & -4 & 8 & 1 \end{array} \right]$$

$$r_3' = r_3 - 3r_1$$

↓

$$\left[\begin{array}{cccc} 1 & -2 & 1 & 3 \\ -2 & 1 & 0 & 0 \\ 1 & 0 & 0 & 0 \end{array} \right]$$

$$\left[\begin{array}{cccc} a & b & c & d \\ e & f & g & h \\ i & j & k & l \end{array} \right]$$

3
2
4
0
9
0
5
-8

$$a = : 1$$

$$b = : -2$$

$$c = : 1$$

$$d = : 0$$

$$e = : 0$$



Question 21

Not yet answered

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Flag question

Let $A = \begin{bmatrix} 5 & -5 & 4 \\ 0 & 3 & 2 \\ 1 & 0 & 7 \end{bmatrix}$

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

Assume I is the identity matrix.

$$D = 2A + 3A - (3A + 2A - 5I)$$

$$D = 5I$$

$$\begin{bmatrix} 5 & 0 & 0 \\ 0 & 5 & 0 \\ 0 & 0 & 5 \end{bmatrix}$$

$$a = : 5$$

$$b = : 0$$

$$c = : 0$$

$$d = : 0$$

$$e = : 5$$

$$f = : 0$$

$$g = : 0$$

$$h = : 0$$

$$i = : -1$$



on 11

not answered

out of

g question

Find the values of the resulting matrix.

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

$$\downarrow \quad \begin{array}{l} r2' = r2 - r3 \\ r1' = r1 + r3 \end{array}$$

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

$$a = \text{ } 2 \quad \cdot$$

$$b = \text{ } 1 \quad \cdot$$

$$C = \text{ } 1 \quad \cdot \quad \begin{array}{ccccccc} 1 & 0 & 0 & 2 & 1 & 1 \\ 0 & 1 & 0 & 1 & 1 & -2 \\ 0 & 0 & 1 & 1 & 0 & 1 \end{array}$$

$$d = \text{ } 1 \quad \cdot$$

$$e = \text{ } 1 \quad \cdot$$

$$f = \text{ } 2 \quad \cdot$$



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3

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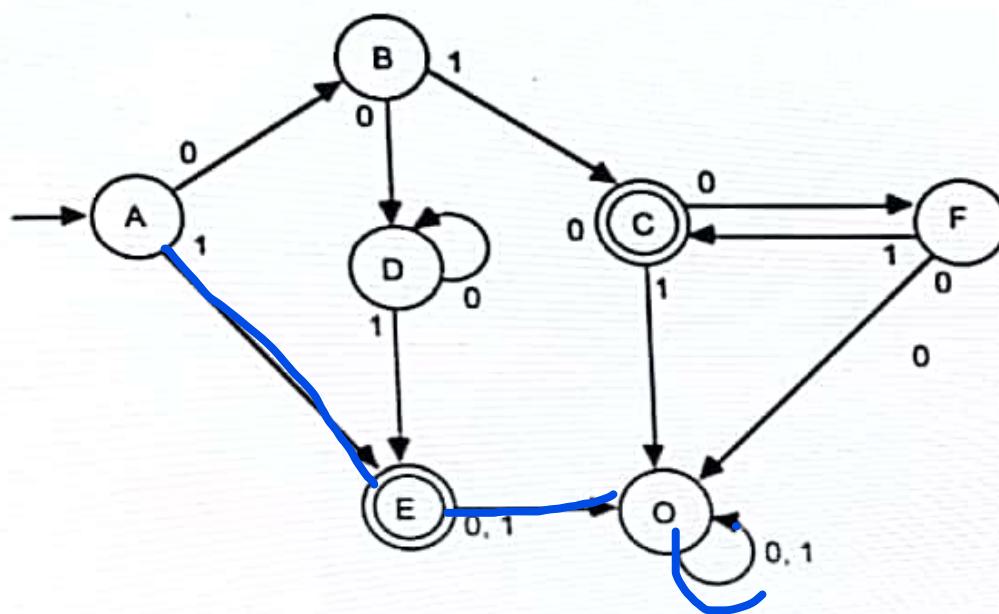
question

Find the following definite integral.

$$\int_{-2}^{0} |4x - 5| dx$$

Answer: -18

Consider the following finite state Machine A.



What is the initial State? **A**

To what state does A go if 110101100 input to A in sequence starting from the initial state?

Find $N(C, 1)$

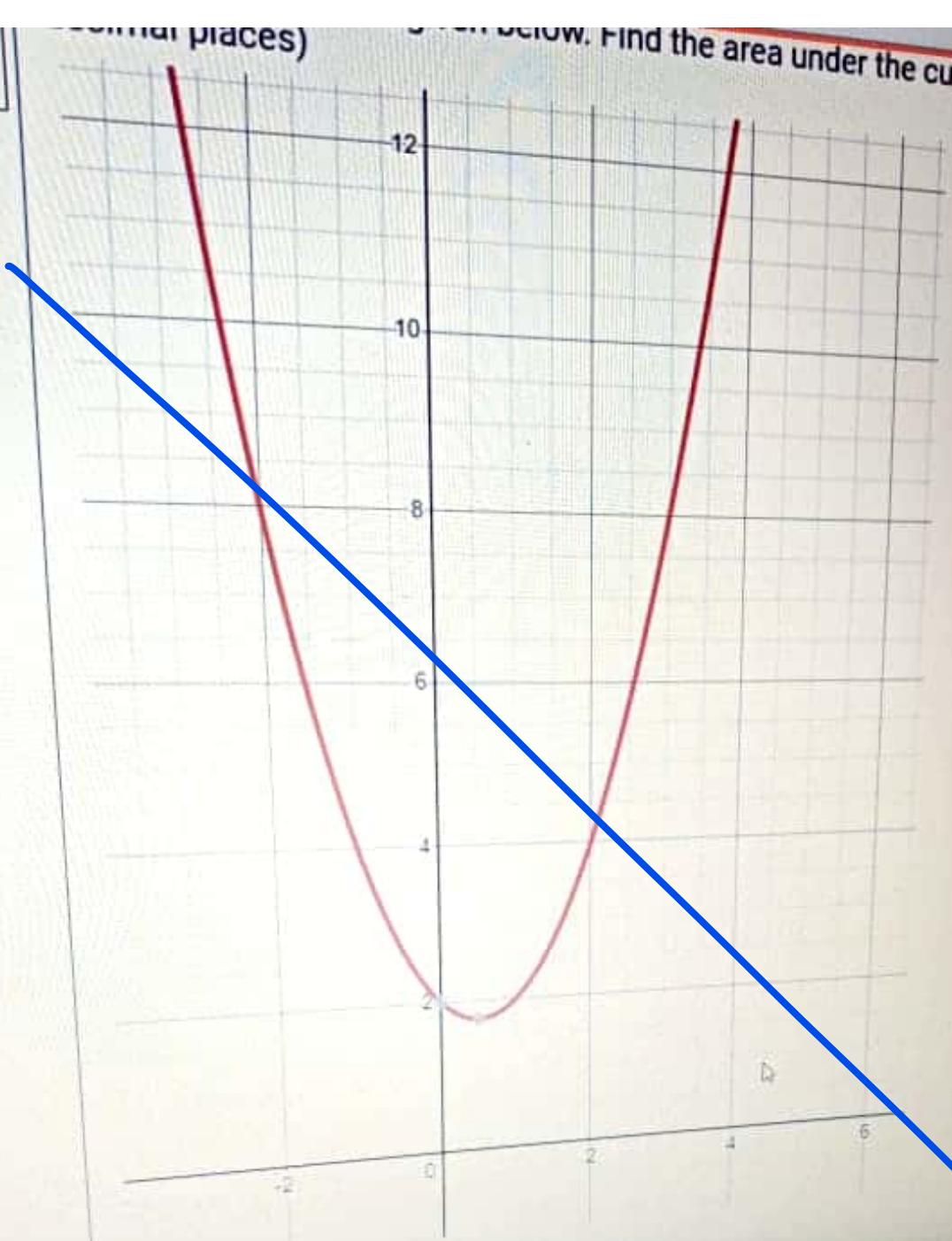
Find $N(F, 0)$

- A
- B
- C
- D
- E
- F

question

(Round to three decimal places)

Below. Find the area under the curve from -4 to 4. (Round your answer to three decimal places)



Answer: 42.67

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

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

$$C_{11} \quad \text{Choose...} \quad \begin{matrix} 23 & -11 & -5 \\ 12 & 3 & -5 \\ -18 & 1 & 10 \end{matrix}$$

$$C_{12} \quad \text{Choose...}$$

$$C_{13} \quad \text{Choose...}$$

$$C_{21} \quad \text{Choose...}$$

$$C_{22} \quad \text{Choose...}$$

$$C_{23} \quad \text{Choose...}$$

18

Answered
out of
question

Find the following definite integral.

$$\int_{-1}^2 \left(\frac{1}{x^2} - 3x\right) dx.$$

ANSWER:

In a Cricket tournament, there are 45 matches. If each team plays one match with every other team, the number of teams is : 10

Next page

Find $B=3A$; $C=8+2A-5I$. Find matrix D such that $D=2A+B-C$.

Assume I is the identity matrix.

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

$A = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}$

$B = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}$

$C = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}$

$D = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}$

$E = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}$

$F = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}$

$G = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}$

$H = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}$

$I = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}$



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How many possible outcomes are there when five dice are rolled in which at least one dice shows 6?

Answer = :



Moodle

→ X C | i | A



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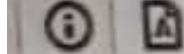
25

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100

* Reg question

~~Find out how many distinct three-digit numbers can be formed using the digits 1, 2, 3, 4, 5, 6, 7, 8, 9 such that the digits are in ascending order.~~

Answer = :



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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 = :

2

2 -1

-5/2 3/2

b = :

-1

c = :

-2.5

d = :

-1.5

(Write your answer with one decimal place)

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Find out how many distinct three-digit numbers can be formed using digits 1, 2, 3, 4, 5, 6, 7, 8, 9 such that the digits are in ascending order.

Answer = :

Number of edges in graph G is 15. Assume that there are 6 vertices with equal degree values.

Total degree = :

Degree of a one vertex = :

Does an Euler Circuit exist in G?

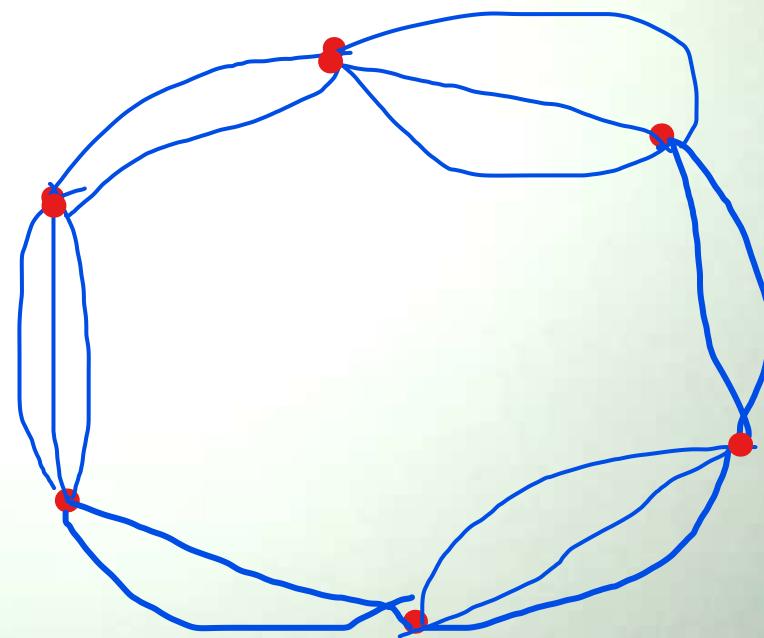
Yes

No

Does an Euler Path exist in G?

Yes

No



Find the following definite integral.

$$\int_2^5 |4x - 5| dx$$

(Please remove spaces from the answer)

Answer: 27

I



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Question 26

Not yet answered

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1.00

Flag question

In a Cricket tournament, there are 15 matches. If each team plays one match with every other team, the number of teams is :



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DECLARATION



EXAM QUESTIONS

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



Finish attempt

Time left: 0:05:03

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umber of edges in graph G is 8. Assume that there are 4 vertices with equal degree values.

total degree = 16 1

degree of a one vertex = 4

Does an Euler Circuit exist in G?

Yes

No

Does an Euler Path exist in G?

Yes

No

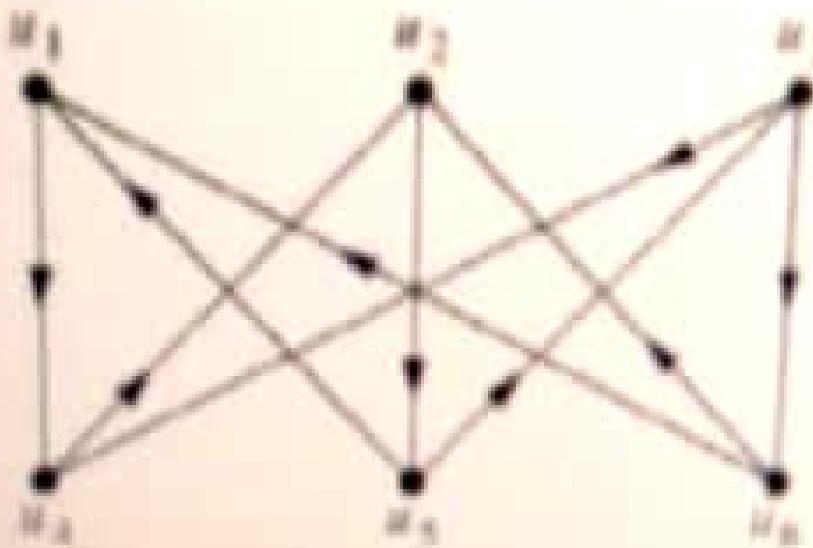
Number of components of G = 1



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Consider the following Directed Graph.



Number of Edges = 9

Total Indegree = 9

Total Outdegree = 9



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Consider the following function.

$$f(x) = 2x^4 - x^2 - 2$$

1. Find $f'(-2)$: -60
2. Find the definite integral of $f(x)$ from 0 to 6 : 6667.2
(Keep Your answer to one decimal place)

Question 26

Not yet answered

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1.00

Flag question

In a Cricket tournament, there are 55 matches. If each team plays one match with every other team, the number of teams is : 11

≡ Quiz navigation

DECLARATION



EXAM QUESTIONS

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

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Amount submitted:

Time left: 0:10:38

$$f(x) = (6x^2 + 2x)(x^3 + 1).$$

Find $f'(-2)$.

Hint : Differentiate the function and Substitute -2.

Answer:

16



Number of edges in graph G is 9. Assume that there are 6 vertices with equal degree values.

Total degree = :

Degree of a one vertex = :

Does an Euler Circuit exist in G?

Yes

No

Does an Euler Path exist in G?

Yes

No

red
dom

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.

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

$$a = : \quad \begin{matrix} 5 & 0 & 0 \\ 0 & 5 & 0 \\ 0 & 0 & 5 \end{matrix}$$

$$b = :$$

$$c = :$$

$$d = :$$

$$e = :$$

$$f = :$$

$$g = :$$

$$h = :$$



Online Exams

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Find $f'(2)$.

$$f(x) = \frac{x^3}{x^2 + 1}.$$

Hint: Differentiate the function and substitute 2.

(Write your answer as a fraction. Eg: 4/5, No spaces should be in the answer)

Answer:

-2/25



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Consider the following function.

$$g: R \rightarrow R \quad g(x) = \frac{(5x - 9)}{2}$$

Find $g^{-1}(3)$

Hint : Find the inverse of g and substitute -5.

Answer : |

3

I

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

Assume I is the identity matrix.

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

$$a = : \boxed{}$$

$$b = : \boxed{}$$

$$c = : \boxed{}$$

$$d = : \boxed{}$$

$$e = : \boxed{}$$

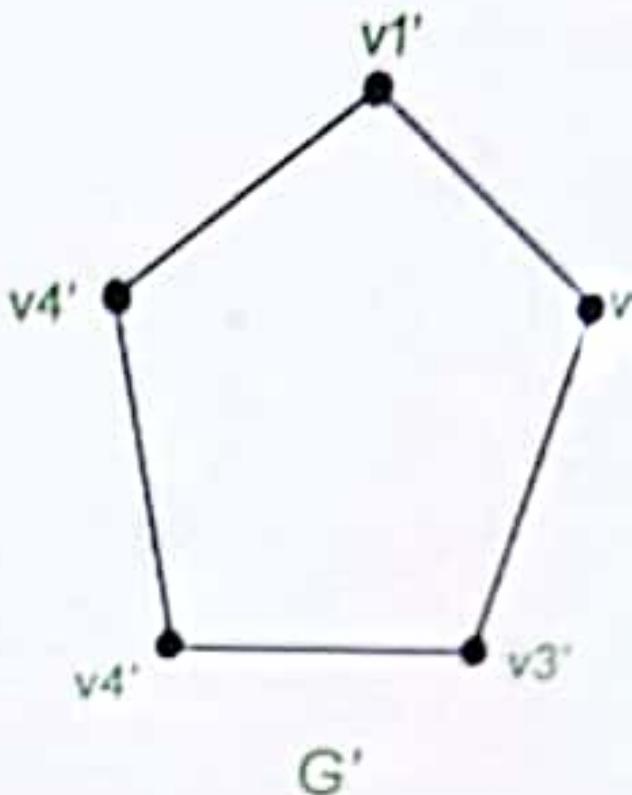
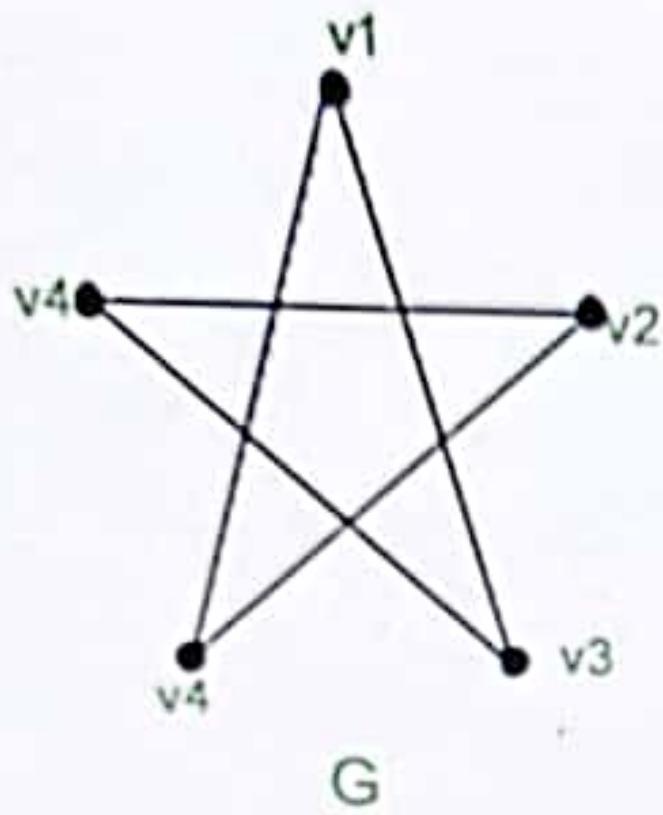
$$f = : \boxed{}$$

$$g = : \boxed{}$$

$$h = : \boxed{}$$

$$i = : \boxed{}$$

What is the correct statement about the following 2 graphs.



Select one:

Two graphs are isomorphic

Two graphs are not isomorphic

The two graphs have different degree sequences



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If repetition is not allowed, then how many numbers between 2000 and 3000 can be formed using the digits from 0 to 7?

Answer = : **210**

1 * 7 * 6 * 5

[Next page](#)

≡ Qu

DECLAR

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EXAM QUE

1 **2**

9 **10**

17 **18** **19**

25 **26** **27**

Finish attempt ...

Question 28

Not yet answered

Marked out of
4.00

Flag question

Number of edges in graph G is 6. Assume that there are 4 vertices with equal degree values.

Total degree = : 12

Degree of a one vertex = : 3

Does an Euler Circuit exist in G?

Yes

No

Does an Euler Path exist in G?

Yes

No

Next page



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Find $f'(2)$

$$f(x) = \frac{x^3}{x^2 + 1}.$$

Hint: Differentiate the function and substitute 2.

(Write your answer as a fraction. Eg; 4/5, No spaces should be in the answer)

Answer:

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Number of edges in graph G is 6. Assume that there are 4 vertices with equal degree values.

Total degree = :

Degree of a one vertex = :

Does an Euler Circuit exist in G?

Yes

No

Does an Euler Path exist in G?

Yes

No

b

b

Consider the following linear system of equations.

$$2x + y + az = 3$$

$$x + y + z = 1$$

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

Find the value of a if the above system of equations have infinite number of solutions.

Answer:

7

[See all photos](#)[+ Add to](#)[Edit & Create](#)

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Question 6

Not yet answered

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1.00[Flag question](#)

Which of the following pair of graphs are isomorphic?



A



B



C

Select one:

- A only
- B only
- A and B only
- All pairs are isomorphic
- None of the above

Online Exams

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

$$f: N \rightarrow N \quad f(n) = (x - 2)(x + 3)$$

Is f a One to one function?

Choose... 

Choose

yes

no

Choose... 

yes

Is f an onto function?

no

Does f has an inverse function?

no

Question 24

Not yet answered

Marked out of
2.00

 Flag question

$h : [2, \infty) \rightarrow \mathbb{R}$ defined by $h(x) = \sqrt{x - 2}$

Is the function one to one ?

Yes

No

Is the function onto?

Yes

No

Next page

The function $f : \mathbb{Z} \rightarrow \mathbb{Z}$ defined by

$$f(n) = \begin{cases} \frac{n}{2} & \text{if } n \text{ is even} \\ \frac{n+1}{2} & \text{if } n \text{ is odd} \end{cases}$$

Is the function one to one ?

Yes

No

Is the function onto?

No

Yes



Online Exams

Sri Lanka Institute of Information Technology

$$f(x) = \left(\frac{1}{x} - 3\right) \frac{x^2 + 3}{2x - 1}$$

Find $f'(-1)$

Hint : Differentiate the function and substitute -1

(Please write answer as a fraction. Eg: 6/7
The spaces should be in this manner)



Online Exams

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18

answered

out of

ag question

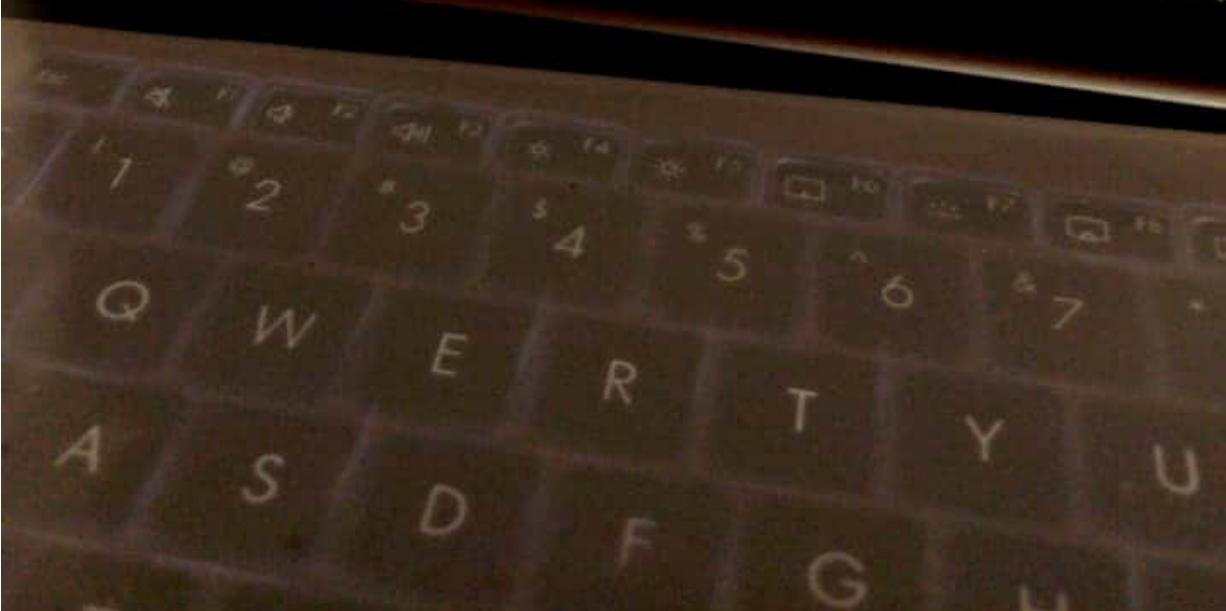
Find the following definite integral.

$$\int_{-1}^2 \left(\frac{1}{x^2} - 3\right) dx.$$

(Keep your answer with a one decimal place)

Answer:

ASUS V



Question 23

Not yet answered

Marked out of
1.00

Flag question

Find the following definite integral.

$$\int_0^2 |2x - 3| dx$$

(Write your answer as a fraction Eg: 3/2, Please remove spaces from the answer)

Answer: -23/2

Next page



Online Exams

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Consider the following function.

$$f(x) = x^4 - x^2 + 20$$

1. Find $f'(-4)$:

2. Find the definite integral of $f(x)$ from -3 to 3 :

(Round your answer to one decimal place)



Online Exams

Sri Lanka Institute of Information Technology

Question 23

Not yet answered

Marked out of
1.00

Flag question

Find the following definite integral.

$$\int_0^2 |2x - 3| dx$$

(Write your answer as a fraction Eg: 3/2, Please remove

Answer: I

Question 24

Not yet answered

Marked out of
0.00[Flag question](#)

The function $f : \mathbb{Z} \rightarrow \mathbb{Z}$ defined by

$$f(n) = \begin{cases} \frac{n}{2} & \text{if } n \text{ is even} \\ \frac{n+1}{2} & \text{if } n \text{ is odd} \end{cases}$$

Is the function one to one ?

- Yes
- No

Is the function onto?

- No
- Yes

[Next page](#)[Finish attempt ...](#)

Time left 0:13:20

[≡ Quiz navig](#)[DECLARATION](#)

1

[EXAM QUESTIONS](#)

1	2	3	4
9	10	11	12
17	18	19	20
25	26	27	28
			1



Question 25

Not yet answered

Marked out of

Flag question

How many numbers not exceeding 10000 can be made using the digits 2,4,5,6,8 if repetition of digits is allowed?

Answer = :

780

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

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)

Question 17

Not yet answered

Marked out of
2.00

 Flag question

Consider the following function.

$$f(x) = x^4 - x^2 + 20$$

1. Find $f'(-4)$:
 2. Find the definite integral of $f(x)$ from -3 to 3 :
- (Round your answer to one decimal place)



Online Exams

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on 19

not answered
1 out of

Flag question

$$f(x) = (x^2 + 1)/(x^3 - 3x).$$

Find $f'(2)$.

Hint : Differentiate the function and Substitute 2.

(Write your answer as a fraction. Eg; 4/5, No spaces should be in the answer)

Answer:

Find the following definite integral.

$$\int_{-1}^2 \left(\frac{1}{x^3} - 3\right) dx.$$

(Keep your answer with three decimal places)

Answer: -8.625

Online Exams



Sri Lanka Institute of Information Technology

$$f(x) = (x^2 - 5)(x^3 - 2x + 3)$$

Find $f'(-2)$.

Hint : Differentiate the function and Substitute -2.
(No spaces should be in the answer)

Answer: **24**

 Online Exams

Sri Lanka Institute of Information Technology

Find the following definite integral.

$$\int_{-1}^{0} |3x - 4| dx$$

(Write your answer as a fraction Eg: 3/2, Please remove spaces from the answer)

Answer:

Question 18

Not yet answered

Marked out of
1.00

 Flag question

Find the following definite integral.

$$\int_{-1}^2 \left(\frac{1}{x^3} - 3\right) dx.$$

(Keep your answer with three decimal places)

Answer: -1.5

If repetition is not allowed, then how many numbers between 2000 and 3000 can be formed using the digits from 0 to 7?

Answer = : 

[Next page](#)

$$f(x) = \frac{(x^2 + 1)}{(x^3 - 3x)}.$$

Find $f'(2)$.

Hint : Differentiate the function and Substitute 2.

(Write your answer as a fraction. Eg, 4/5, No spaces should be in the answer)

Answer:



Online Exams

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Consider the following function.

$$f(x) = 2x^4 - x^2 - 2$$

1. Find $f'(-2)$:

2. Find the definite integral of $f(x)$ from 0 to 6 : 
(Keep Your answer to one decimal place)

Consider the following function.

$$f(x) = x^3 - 2x^2 + 5$$

1. Find $f'(-3)$:

2. Find the definite integral of $f(x)$ from -3 to 3 :

Next page

Find the following definite integral.

$$\int_{-1}^2 \left(\frac{1}{x^2} - 3\right) dx.$$

(Keep your answer with a one decimal place)

Answer:



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 = :



Online Exams

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17

Powered
out of
question

Consider the following function.

$$f(x) = x^3 - 2x^2 + 5$$

1. Find $f'(-3)$:



2. Find the definite integral of $f(x)$ from -3 to 3 :



Online Exams

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Find the following definite integral.

$$\int_{-1}^2 \left(\frac{1}{x^3} - 5 \right) dx.$$

(Keep your answer with three decimal places)

Answer: -2.625 I



Question 17

Not yet answered

Marked out of
2.00

Flag question

Consider the following function.

$$f(x) = x^5 + 2x^3 - 5$$

1. Find $f'(-2)$:

2. Find the definite integral of $f(x)$ from -2 to 2 :



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Please mention the question numbers of the questions of which you encountered the issues?

(this is optional and marks allocated for this question is 0)

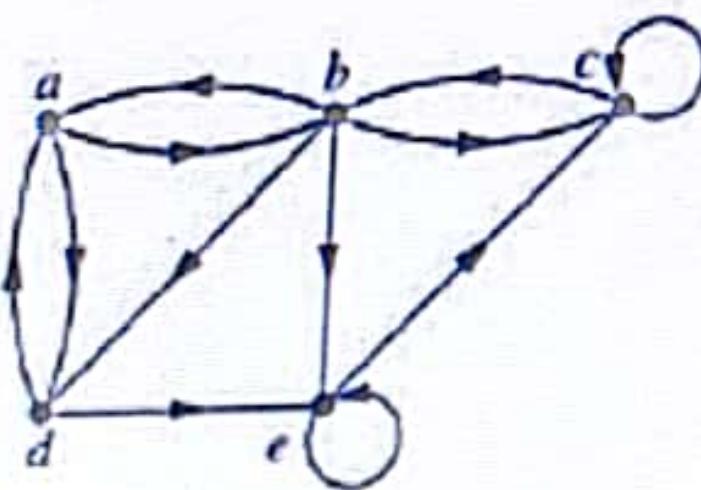
Question 22

Not yet answered

Marked out of
3.00

 Flag question

Consider the following Directed Graph.



Number of Edges = :

Total Indegree = :

Total Outdegree = :

\mathbb{N} Refers to all the positive integers. (Called as Natural Numbers)

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

Is f a One to one function?

Choose... *

✓

Is f an onto function?

Choose... *

✗

Does f has an inverse function?

Choose... *

✗

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 =



Online Exams

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Total number of words formed by 2 vowels and 3 consonants taken from 4 vowels and 5 consonants is equal to

(No spaces should be there in the answer)



Answer:

Find the values of the resulting matrix.

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



$$\begin{bmatrix} 1 & 0 & 0 & a & b & c \\ 0 & 1 & 0 & d & e & f \\ 0 & 0 & 1 & 1 & 2 & -1 \end{bmatrix}$$

a = 2 *

b = Choose... *

c = Choose... *

d = Choose... *

e = Choose... *

f = Choose... *



Sri Lanka Institute of Information Technology

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:

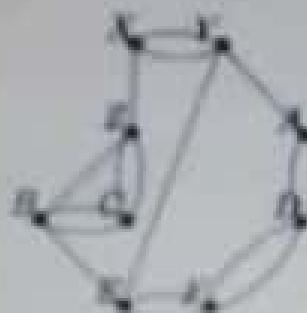


Next page

Which of these graphs have Hamiltonian Circuits?



A



B



C

Select one:

A only

B only

C only

D only

All graphs

None of the above



Question 7
Score per answer
Marked out of 1.00
View Submission

Find how many Legna Wasanawa Tickets can be Printed in a one Draw if it includes one zodiac sign and 4 numbers. (Any number from 00 - 99)

Assume that the numbers cannot be repeated in a one ticket.



Find the following definite integral.

$$\int_{-1}^2 \left(\frac{1}{x^2} - 3\right) dx.$$

(Keep your answer with a one decimal place)

Answer:

Question 16

Not yet answered

Marked out of
6.00

Flag question

$$\begin{bmatrix} 1 & 0 & 0 & 1 & -1 & 2 \\ 1 & 1 & 0 & -1 & 2 & 1 \\ 0 & 0 & 2 & 6 & -2 & 18 \end{bmatrix}$$



$$\begin{bmatrix} 1 & 0 & 0 & 1 & -1 & 2 \\ 0 & 1 & 0 & a & b & c \\ 0 & 0 & 1 & d & e & f \end{bmatrix}$$

Find the values of a, b, c, d, e and f.

$$a = \boxed{1}$$

$$b = \boxed{-3}$$

$$c = \boxed{1}$$

$$d = \boxed{3}$$

$$e = \boxed{1}$$

$$f = \boxed{-2}$$

Consider the following function.

$$f(x) = x^5 - x^3 + 5$$

1. Find $f'(-2)$: 68
2. Find the definite integral of $f(x)$ from -3 to 3 : 3q

Question 17

Not yet answered
Marked out of
2.00



Consider the following function.

$$f(x) = x^5 + 2x^3 - 5$$

1. Find $f'(-2)$:
2. Find the definite integral of $f(x)$ from -2 to 2 :



Online Exams

Sri Lanka Institute of Information Technology

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} Choose...

C_{12} Choose...

C_{13} Choose...

C_{21} Choose...

C_{22} Choose...

Find the values of the resulting matrix.

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



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

a = Choose...

b = Choose...

c = Choose...

d = Choose...

e = Choose...

f = Choose...

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.

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

$$a = :$$

$$b = :$$

$$c = :$$

$$d = :$$

$$e = :$$

$$f = :$$

$$g = :$$



Online Exams

Sri Lanka Institute of Information Technology

$$f(x) = \frac{-(x+1)}{4x+7}$$

Find $f'(-3/2)$.

Hint : Differentiate the function and Substitute $-3/2$.

(No spaces should be in the answer)

Answer:

$$\begin{bmatrix} 1 & 0 & 0 & 1 & -1 & 2 \\ 0 & 1 & -2 & -1 & 2 & 1 \\ 0 & 0 & 3 & 6 & -3 & 18 \end{bmatrix}$$



$$\begin{bmatrix} 1 & 0 & 0 & 1 & -1 & 2 \\ 0 & 1 & 0 & a & b & c \\ 0 & 0 & 1 & d & e & f \end{bmatrix}$$

Find the values of a, b, c, d, e and f.

a = :

b = :

c = :

d = :

e = :

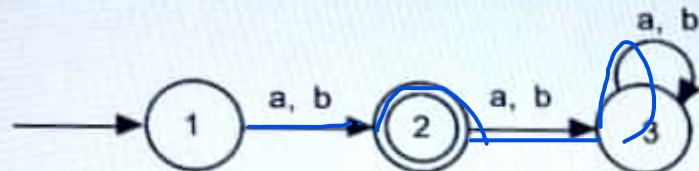
f = :

Question 13

Not yet answered

Marked out of
4.00

Flag question

Consider the following finite state Machine A.What is the initial State? **1**To what state does A go if ~~abbabaaba~~ input to A in sequence starting from the initial state? **3**Find $N(2, a)$ **3**Find $N(1, b)$ **2****≡ Quiz navigation****DECLARATION** I**EXAM QUESTIONS**

1	2	3	4	5
8	9	10	11	12
15	16	17	18	19
22	23	24	25	26
I				

Finish attempt...

Time left 03:24

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

Find the determinant of the above matrix.:

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

$$a = : | \quad |$$

1.5

$$b = : | \quad |$$

-1

$$c = : | \quad |$$

-1

$$d = : | \quad |$$

(Write your answer with one decimal place)



Online Exams

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Question 26

Not yet answered

Marked out of
1.00

Flag question

In a Cricket tournament, there are 45 matches. If each team plays one match with every other team, the number of teams is :

10

[Next page](#)

≡ Quiz navigation

DECLARATION



EXAM QUESTIONS

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	I			

[Finish attempt ...](#)

Time left 0:24:08



Online Exams

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Consider the following function.

$$f(x) = 2x^4 - x^2 - 2$$

1. Find $f'(-2)$:

2. Find the definite integral of $f(x)$ from 0 to 6 :

(Keep Your answer to one decimal place)

Question 8

Not yet answered

Marked out of
0.00

Flag question

$$4x - 2y = 8$$

$$3x - 5y = -1$$

Represent the above equations in $Ax = b$ form.

Let $\text{adj } A = \begin{bmatrix} p & q \\ r & s \end{bmatrix}$

$$\begin{matrix} -5 & 2 \\ -3 & 4 \end{matrix}$$

Find the Following.

$$|\mathbf{A}| = -14$$

$$\mathbf{P} = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$$

$$\mathbf{Q} = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$$

$$\mathbf{R} = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$$

$$\mathbf{S} = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$$

$$\mathbf{X} = \begin{bmatrix} 3 \\ 2 \end{bmatrix}$$

$$\mathbf{Y} = \begin{bmatrix} 3 \\ 2 \end{bmatrix}$$





Online Exams

Sri Lanka Institute of Information Technology

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lag question

$$f(x) = (x^2 + 1)/(x^3 - 3x).$$

Find $f'(2)$.

Hint : Differentiate the function and Substitute 2.

(Write your answer as a fraction. Eg; 4/5, No space

Answer:

-37/4

I

$$f(x) = \frac{x^2 + 1}{5x - 3}$$

Find $f'(-1)$.

Hint : Differentiate the function and Substitute -1.

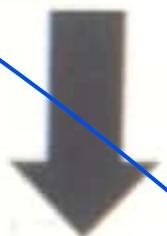
(Write your answer as a fraction. Eg: 23/2

No spaces should be in the answer)

Answer:

3/32

$$\begin{bmatrix} 1 & 0 & 0 & 1 & -1 & 2 \\ 2 & 1 & 0 & -1 & 2 & 1 \\ 0 & 0 & 3 & 6 & -3 & 18 \end{bmatrix}$$



$$\begin{bmatrix} 1 & 0 & 0 & 1 & -1 & 2 \\ 0 & 1 & 0 & a & b & c \\ 0 & 0 & 1 & d & e & f \end{bmatrix}$$

Find the values of a, b, c, d, e and f.

$$a = :$$

$$b = :$$

$$c = :$$

$$d = :$$

$$e = :$$

$$f = :$$

$$f(x) = \frac{x^2 + 7}{3x - 1}.$$

Find $f'(-1)$.

Hint : Differentiate the function and Substitute -1.

Answer: -1



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Question 10

Not yet answered

Marked out of
1.00

Flag question

Consider the following linear system of equations.

$$x + 2y + z = 1$$

$$x + y - z = 0$$

$$2x + 2y + az = 5$$

Find the value of a if the above system of equations have a unique solution.

Answer: 



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Consider the following linear system of equations.

$$x + y - z = -3$$

$$2x + y + z = -1$$

$$x + 2y + az = 1$$

Find the value of a if the above system of equations have no solution.

Answer:

-4

I



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8

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Find the following definite integral.

$$\int_{-1}^2 \left(\frac{1}{x^2} - 3\right) dx.$$

(Keep your answer with a one decimal place)

Answer:

Question 12

Not yet answered

Marked out of
1.00

Flag question

Consider the following function.

$$g: R \rightarrow R \quad g(x) = \frac{(10 - x)}{5}$$

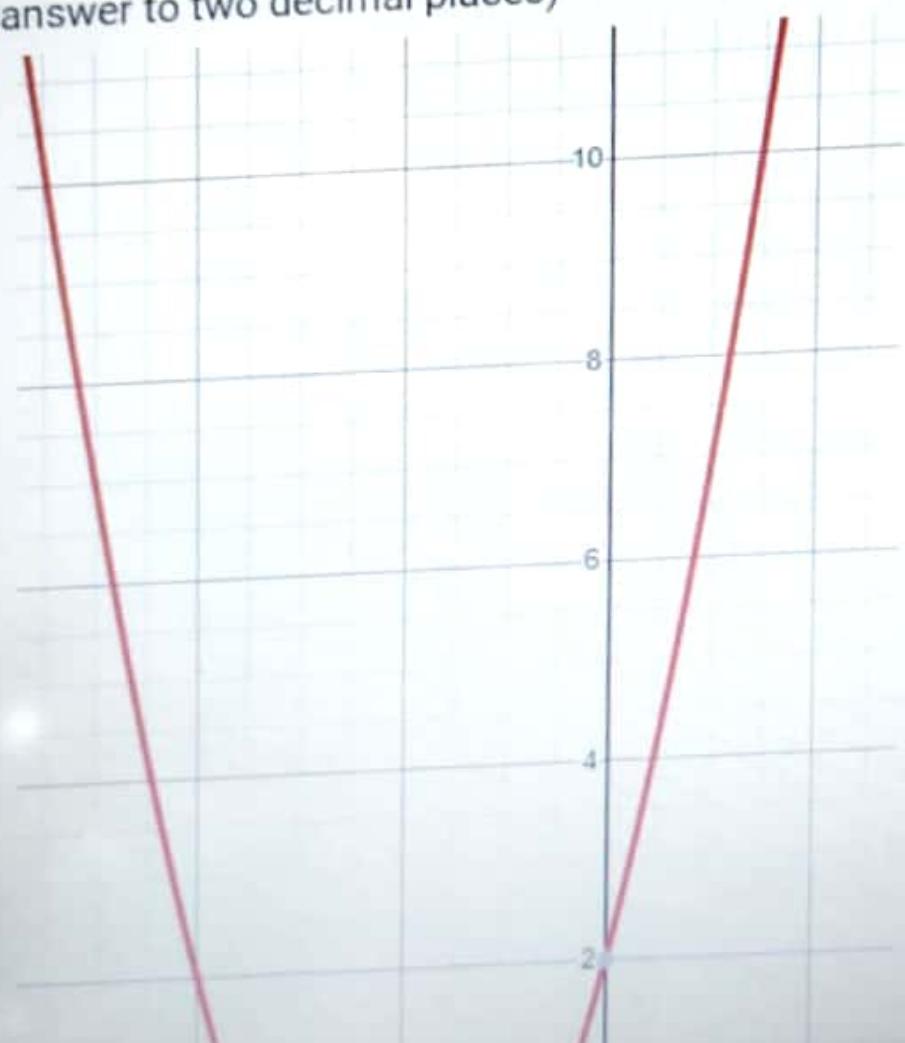
Find $g^{-1}(-3)$

Hint : Find the inverse of g and substitute -3.

Answer:

[Next page](#)

Graph of $y = X^2 + 4x + 2$ is given below. Find the area under the curve from -2 to 2. (Round your answer to two decimal places)



12 22

C_{13} 4

C_{21} 13

C_{22} -10

C_{23} 4

C_{31} 6

C_{32} 20

C_{33} -5

Marked out of
9.00
 Flag question

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

C_{11}

C_{12}

C_{13}

C_{21}

C_{22}

C_{23}



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ation

$$\begin{bmatrix} 1 & 0 & 0 & 1 & -1 & 2 \\ -2 & 1 & 0 & -1 & 2 & 1 \\ 0 & 0 & -3 & 6 & -3 & 18 \end{bmatrix}$$



$$\begin{bmatrix} 1 & 0 & 0 & 1 & -1 & 2 \\ 0 & 1 & 0 & a & b & c \\ 0 & 0 & 1 & d & e & f \end{bmatrix}$$

Find the values of a, b, c, d, e and f.

a = :

b = :

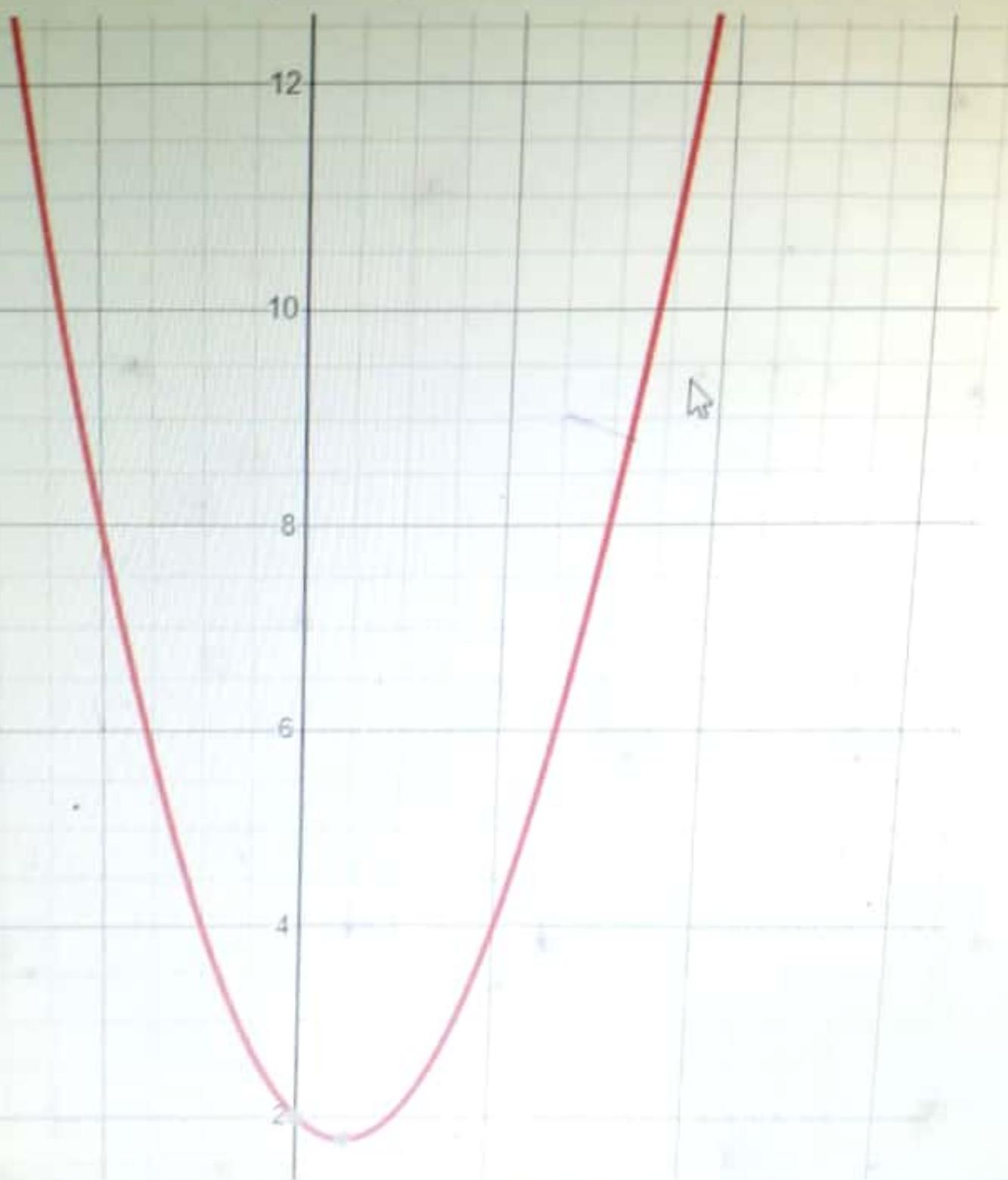
c = :

d = :

e = :

f = :

Graph of $y = x^2 - x + 2$ is given below. Find the area under the curve (answer to 2 decimal places)





Online Exams

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Consider the following function.

$$f(x) = x^5 + 2x^3 - 5$$

1. Find $f'(-2)$:
2. Find the definite integral of $f(x)$ from -2 to 2 :





Question 12

Not yet answered

Marked out of
1.00

Flag question

Consider the following function.

$$g: R \rightarrow R \quad g(x) = \frac{(3x - 7)}{2}$$

Find $g^{-1}(4)$

Hint : Find the inverse of g and substitute 4.

Answer:



Online Exams

Sri Lanka Institute of Information Technology

Find the values of the resulting matrix.

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



$$\begin{bmatrix} 1 & 0 & 0 & a & b & c \\ 0 & 1 & 0 & 2 & -1 & 0 \\ 0 & 0 & 1 & d & e & f \end{bmatrix}$$

a = Choose...

b = Choose...

c = Choose...

d = Choose...

e = Choose...

f = Choose...

Question 18

Not yet answered

Marked out of
1.00

 Flag question

Find the following definite integral.

$$\int_1^2 \left(\frac{1}{x^2} - 3x \right) dx.$$

Answer:



Online Exams

Sri Lanka Institute of Information Technology

$$f(x) = \frac{x^2 + 7}{3x - 1}.$$

Find $f'(-1)$.

Hint : Differentiate the function and Substitute -1.

Answer:



Online Exams

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17

answered

out of

question

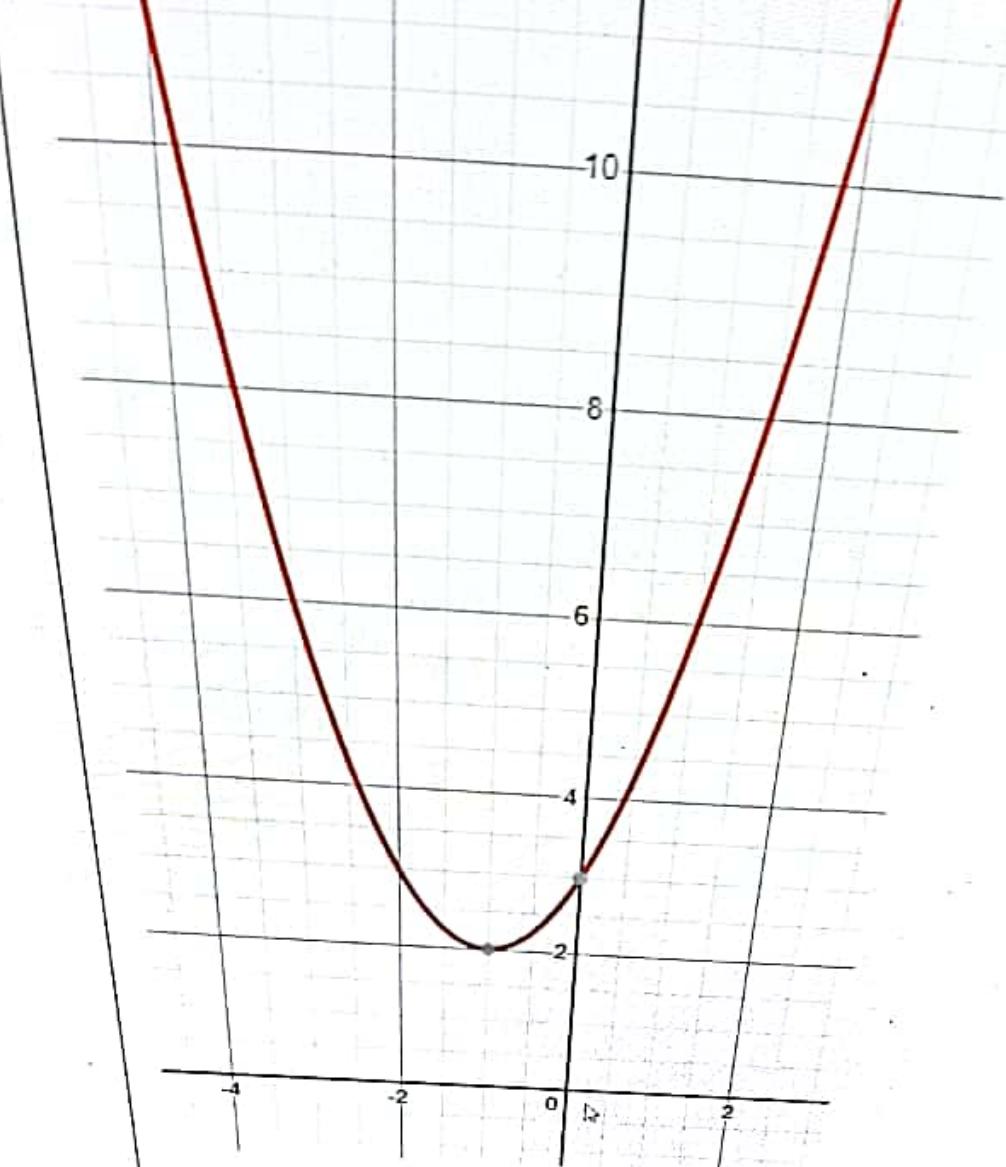
Consider the following function.

$$f(x) = x^3 - 2x^2 + 5$$

1. Find $f'(-3)$:

2. Find the definite integral of $f(x)$ from -3 to 3 :

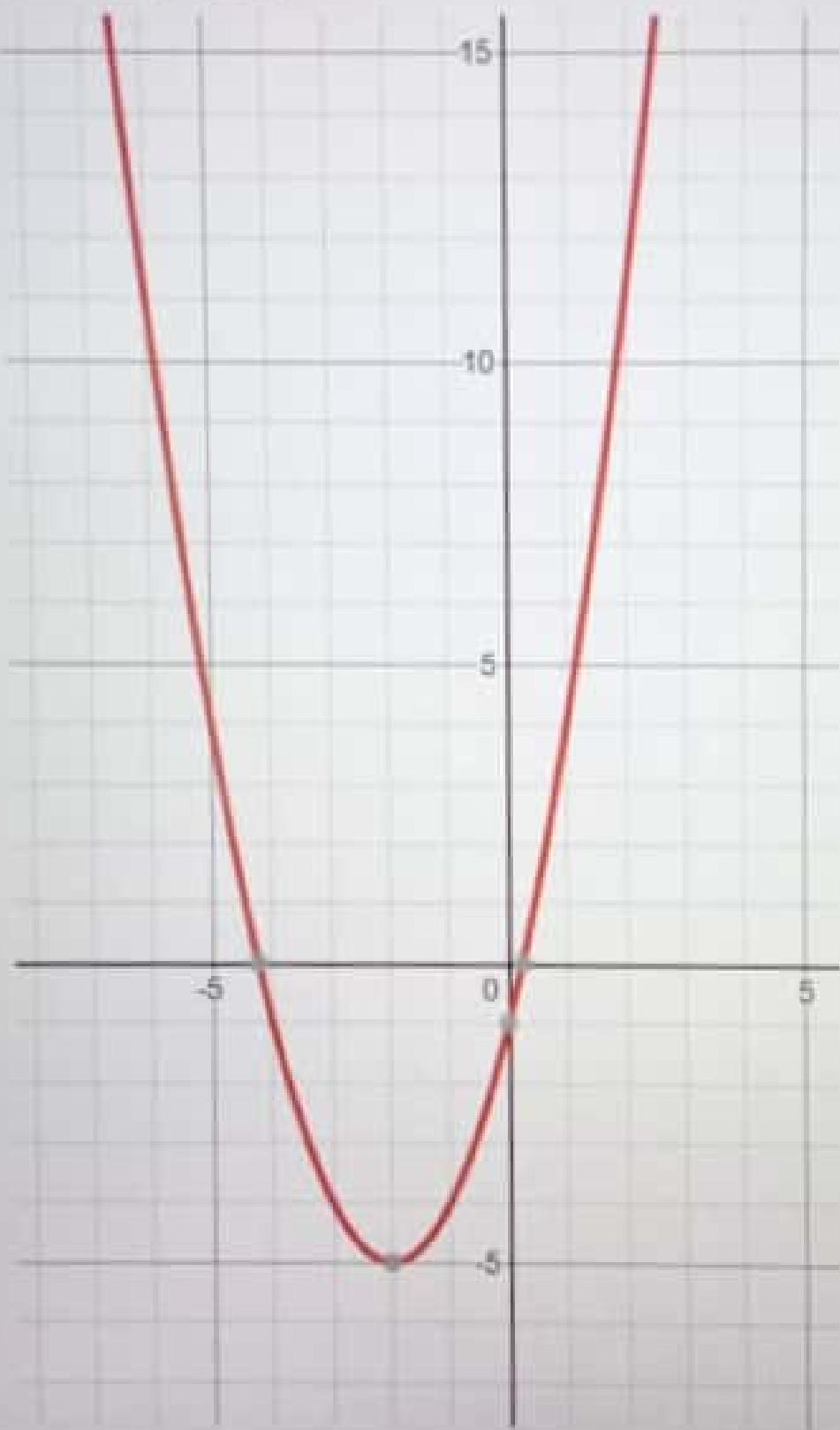
4



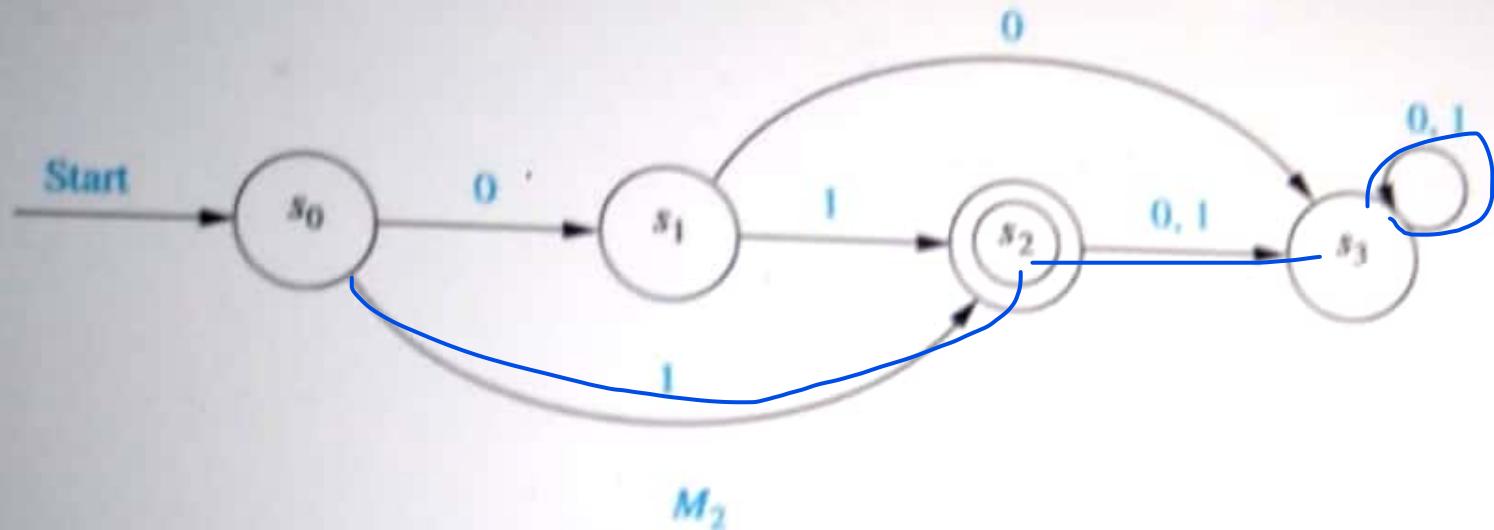
Answer: 17.35



Graph of $y = x^2 + 4x - 1$ is given below. Find the area under the curve (up to two decimal places)



... state Machine A.



What is the initial State?

s0

s1

To what state does A go if 100101001 input to A in sequence starting from the initial state?

s3

s0

s2

What is the Accepting State?

s2

Find $N(s_1, 0)$

s3

s1

Consider the following function.

$$f(x) = x^5 - x^3 + 5$$

1. Find $f'(-2)$:

2. Find the definite integral of $f(x)$ from -3 to 3 :

Find the following definite integral.

$$\int_{-1}^2 \left(\frac{1}{x^2} - 3\right) dx.$$

(Keep your answer with a one decimal place)

Answer:

-9.4

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Consider the following function.

$$f(x) = x^3 - 2x^2 + 5$$

1. Find $f'(-3)$: 15
2. Find the definite integral of $f(x)$ from -3 to 3 : -6



Question 14

Not yet answered

Marked out of
9.00 Flag questionIf $|A| = 64$ then find the cofactor matrix of A.

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

 C_{11} Choose...

$$\begin{matrix} -3 & 21 & 4 \\ 13 & -10 & 4 \\ 6 & 20 & -8 \end{matrix}$$

 C_{12} Choose... C_{13} Choose... C_{21} Choose... C_{22} Choose... C_{23} Choose...



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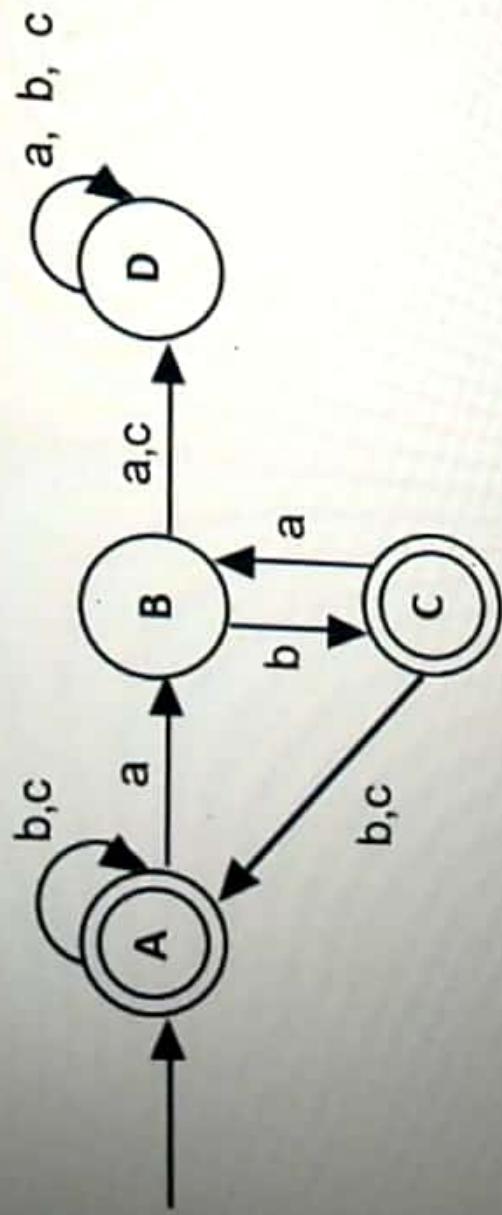
Consider the following function.

$$f(x) = x^5 + 2x^3 - 5$$

1. Find $f'(-2)$:

2. Find the definite integral of $f(x)$ from -2 to 2 :

Consider the following finite state Machine A.



What is the initial State?

To what state does A go if abcacbac input to A in sequence starting from the *initial state*?

Find $N(C, a)$

Find $N(A, b)$

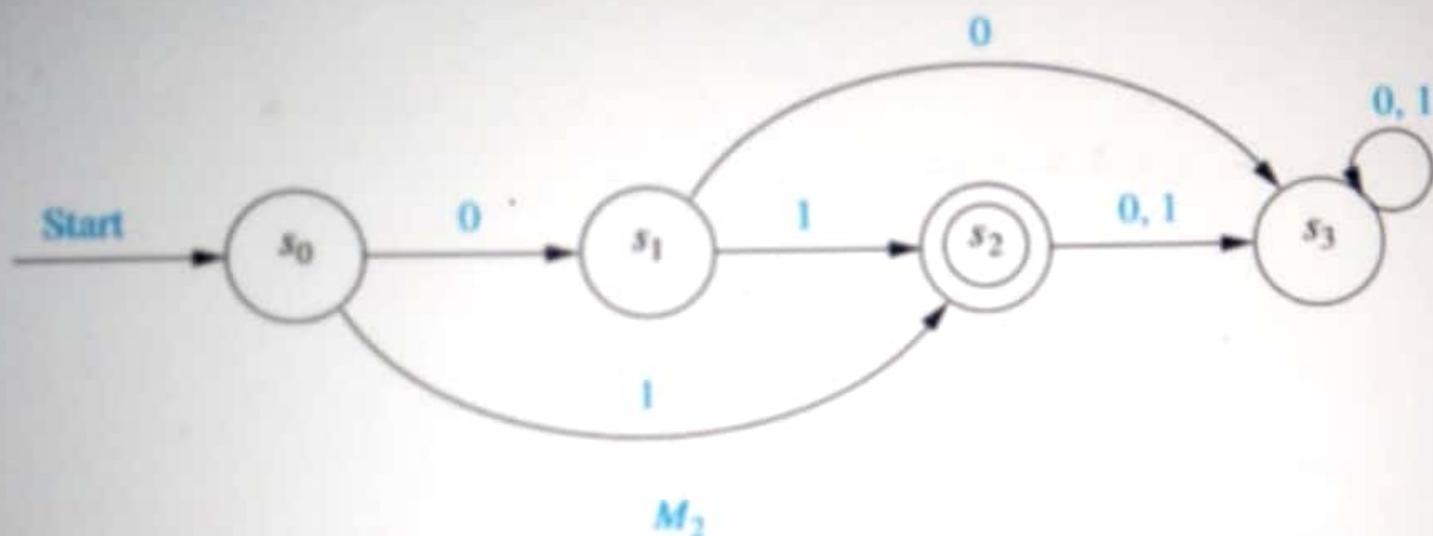
A

D

B

A

Consider the following finite state Machine A.



What is the initial State?

Choose... ▾

To what state does A go if 100101001 input to A in sequence starting from the initial state?

Choose... ▾

What is the Accepting State?

Choose... ▾

Find $N(s_1, 0)$

Choose... ▾



Question 11

Not yet answered

Marked out of
6.00

Flag question

Find the values of the resulting matrix.

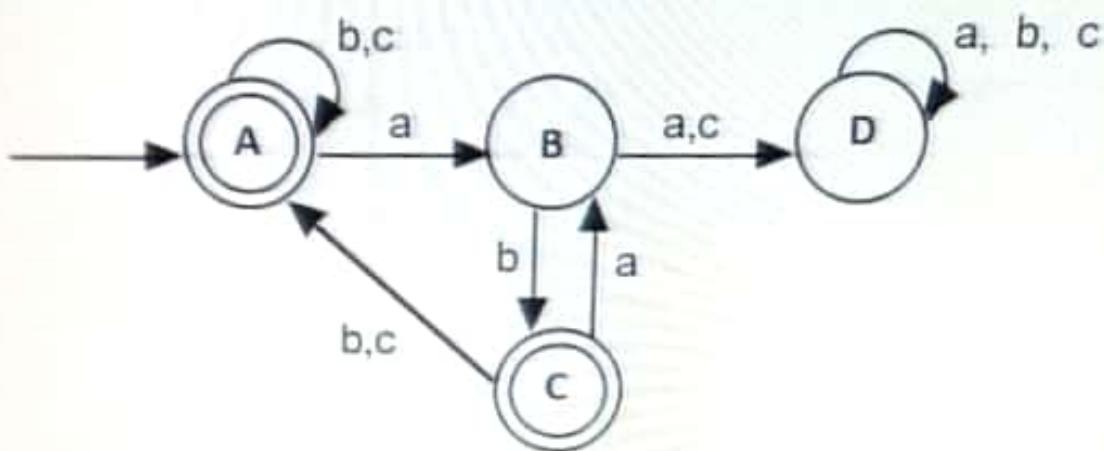
$$\begin{bmatrix} 1 & 0 & 1 & 1 & 0 & 2 \\ 0 & 1 & 2 & -1 & 0 & 1 \\ 0 & 0 & 1 & 1 & 2 & -1 \end{bmatrix}$$



$$\begin{bmatrix} 1 & 0 & 0 & a & b & c \\ 0 & 1 & 0 & d & e & f \\ 0 & 0 & 1 & 1 & 2 & -1 \end{bmatrix}$$

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

Consider the following finite state Machine A.



What is the initial State?

To what state does A go if abcacbac input to A in sequence starting from the initial state?

Find $N(C, a)$

Find $N(A, b)$

Consider the following linear system of equations.

$$x + y + z = -2$$

$$x - y - z = 4$$

$$-x - y + az = -2$$

Find the value of a if the above system of equations ha

Answer: _____

$$\begin{bmatrix} 1 & 0 & 0 & 1 & -1 & 2 \\ 0 & 1 & -1 & -1 & 2 & 1 \\ 0 & 0 & -3 & 6 & -3 & 18 \end{bmatrix}$$



$$\begin{bmatrix} 1 & 0 & 0 & 1 & -1 & 2 \\ 0 & 1 & 0 & a & b & c \\ 0 & 0 & 1 & d & e & f \end{bmatrix}$$

Find the values of a , b , c , d , e and f .

$$a = :$$

$$b = :$$

$$c = :$$

$$d = :$$

$$e = :$$

$$f = :$$

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

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)



Question 10

Not yet answered

Marked out of
1.00

 Flag question

$$A = 100101101 + 100110101$$

Find the 2's Complement of A.

(No spaces should be there in your answer)

Answer:

I

Next

Online Exams

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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 $|A_1|$ -14

Answer for $|A|$ 9

Answer for x -14/9

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

Let

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

Let

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

$$\begin{array}{cc} -7 & 4 \\ -6 & -3 \end{array}$$

Answer for a = :

Answer for b = :

Answer for c = :

Answer for d = :



Online Exams

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Question 14

Not yet answered

Marked out of
1.00 Flag question

Simplify the following boolean expression.

$$\overline{A}(\overline{B}\overline{C} + BC)$$

Select one:

- $\bar{A} + (B + C)(\bar{B} + \bar{C})$
- $\bar{A} + (\bar{B} + C)(\bar{B} + \bar{C})$
- $\bar{A} + (B + \bar{C})(\bar{B} + \bar{C})$
- $\bar{A} + (B + C)(\bar{B}, \bar{C})$
- None of the above



Online Exams

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Question 17

One point available

Marked out of
1.00

1 attempts

$$f(x) = \left(\frac{x-1}{x+3}\right)^3$$

Find $f'(-1)$

Hint: Differentiate the function and Substitute -1.

3



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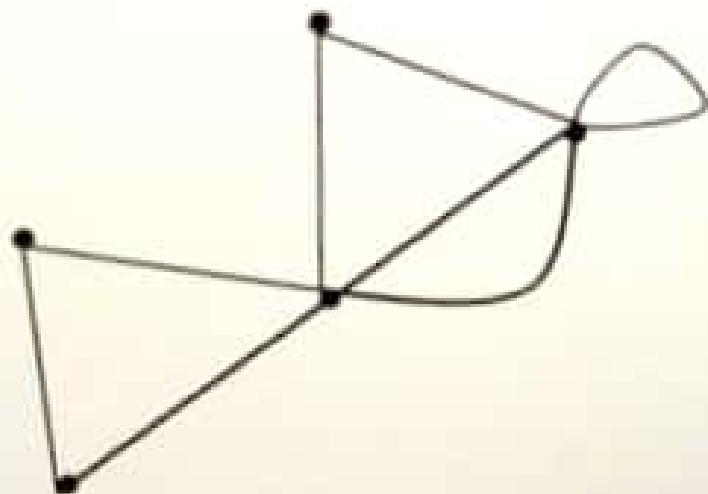
Question 12

Not yet answered

Marked out of
4.00

Flag question

Consider the following graph.



Determine whether the above graph has the followings.

Hamilton Path Choose... yes

Hamilton Circuit Choose... no

Euler Path Choose... yes

Euler Circuit Choose... no

Following adjacency matrix represents an undirected

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

Find the following.

Number of loops

Choose... ▾

2

Number of edges

Choose... ▾

8

Number of vertices

Choose... ▾

4

Total degree

Choose... ▾

16

Question 7

Not yet answered

Marked out of
2.00

Flag question

what is the value of x ?

int x = 50 % 6 + 2 *3 + (4 - 1) / 2 + 9

Select one:

- 1. 24.5
- 2. 24
- 3. 18.5
- 4. 18
- 5. 16



Online Exams

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Consider the following system of linear equations.

$$x + 2y + z = 1$$

$$2x - 3y - z = 6$$

$$x - y - z = 2$$

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

Assume that you solve this using Cramer's Rule.

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

Answer for $|A_1|$ Choose...

12

Answer for $|A|$ Choose...

5

Answer for \bar{x} Choose...

12/5

What is the value of x ?

int x = 20 / 3 + (5 - 1) * 2 - 60 % 12

Select one:

- a. 4
- b. 14.33
- c. 4.33
- d. 14
- e. 9

14.66



Online Exams

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Question 7

Not yet answered

Marked out of
2.00

V Flag question

what is the value of x ?

$$\text{int } x = 50 \% 6 + 2 * 3 + (4 - 1) / 2 + 9$$

Select one:

- 1. 24
- 2. 24.5
- 3. 18
- 4. 16
- 5. 18.5



Question 12

Not yet answered

Marked out of
1.00

Flag question

Consider the following function.

$$g: \mathbb{R} \rightarrow \mathbb{R} \quad g(x) = \frac{(-x + 2)}{3}$$

Find $g^{-1}(-3)$

Hint : Find the inverse of g and substitute -3.

Answer:

[Next page](#)

$$\begin{bmatrix} 1 & 0 & 0 & 1 & -1 & 2 \\ 0 & 1 & -1 & -1 & 2 & 1 \\ 0 & 0 & -3 & 6 & -3 & 18 \end{bmatrix}$$



$$\begin{bmatrix} 1 & 0 & 0 & 1 & -1 & 2 \\ 0 & 1 & 0 & a & b & c \\ 0 & 0 & 1 & d & e & f \end{bmatrix}$$

Find the values of a, b, c, d, e and f.

$$a = : \boxed{}$$

$$b = : \boxed{}$$

$$c = : \boxed{}$$

$$d = : \boxed{}$$

$$e = : \boxed{}$$

$$f = : \boxed{}$$



Online Exams

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Consider the following raw operation and

$$\begin{bmatrix} 1 & 2 & 1 & 3 \\ 2 & 4 & 0 & 9 \\ 3 & 4 & 8 & 0 \end{bmatrix}$$

$$r_2' = r_2 - 2r_1$$



$$\begin{bmatrix} a & b & c & d \\ e & f & g & h \\ i & j & k & l \end{bmatrix}$$

$$a = :$$

$$b = :$$

$$c = :$$

$$d = :$$

$$e = :$$

$$f = :$$

$$g = :$$

$$h = :$$



Online Exams

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Question 11

Not yet answered

Marked out of
6.00

Flag 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 = Choose... *

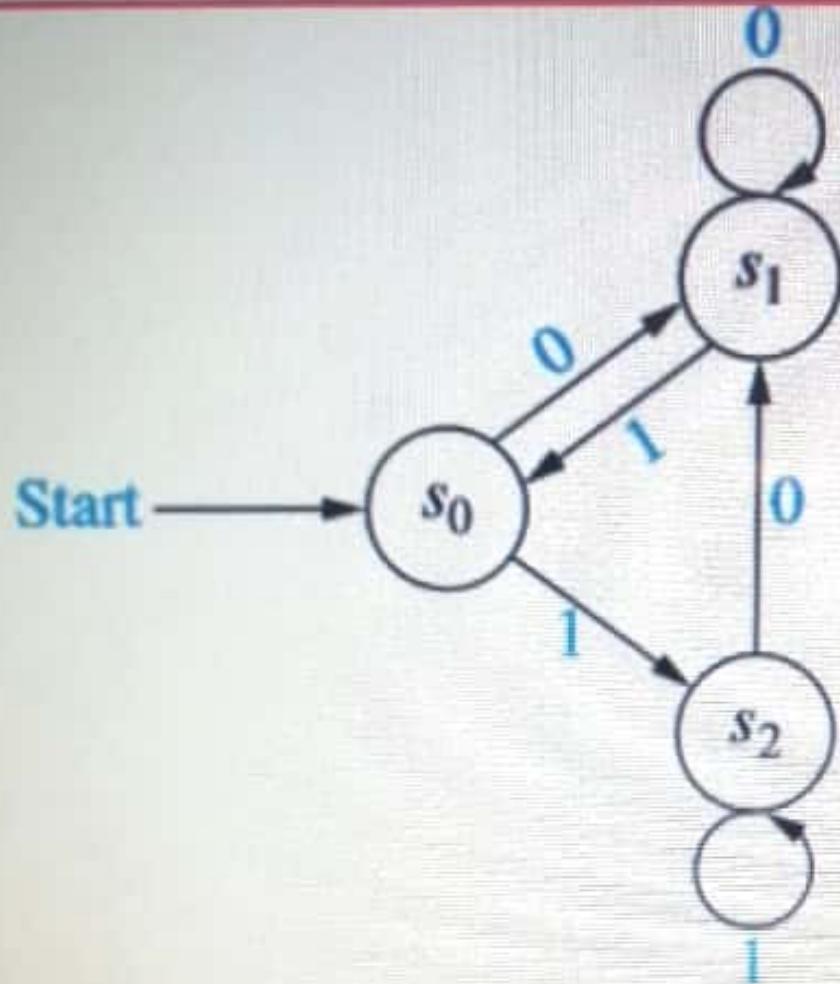
b = Choose... *

c = Choose... *

d = Choose... *

e = Choose... *

f = Choose... *



What is the initial State?

To what state does A go if 100101001 input to A in sequence starting from the initial state?

Find $N(s_1, 0)$

Find $N(s_2, 0)$

Question 12

Not yet answered

Marked out of
1.00

Flag question

Consider the following function.

$$g: \mathbb{R} \rightarrow \mathbb{R} \quad g(x) = \frac{(-2x + 1)}{3}$$

Find $g^{-1}(-3)$

Hint : Find the inverse of g and substitute -3.

Answer: -5

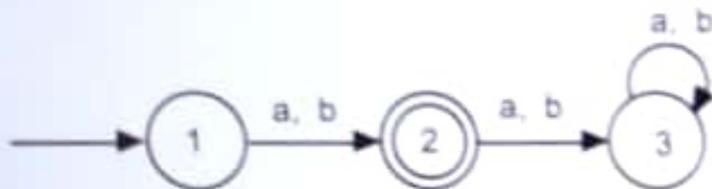


Online Exams



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Consider the following finite state Machine A.



What is the initial State?

1

To what state does A go if abbabaaba input to A in sequence starting from the initial state?

3

Find $N(2, a)$

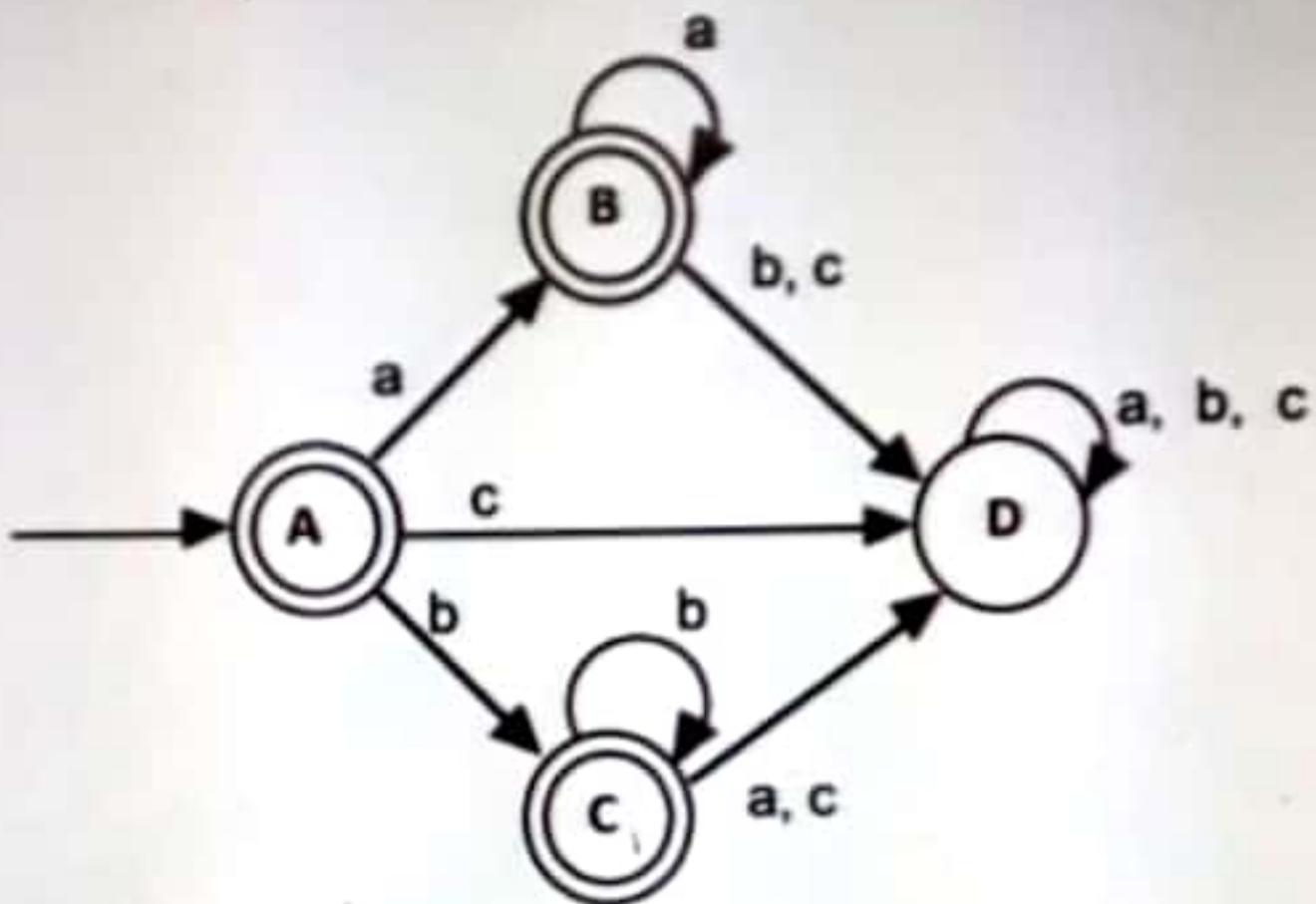
3

Find $N(1, b)$

2

Q

Next



What is the initial State?

A

To what state does A go if abcacacb
input to A in sequence starting from
the initial state?

D

Find $N(C, a)$

D

Find $N(D, b)$

D

Moodle

Online Examinations

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Question 12

Not yet answered

Marked out of 1.00

Flag question

Consider the following function.

$$g: R \rightarrow R \quad g(x) = \frac{(5x - 5)}{4}$$

Find $g^{-1}(-5)$

Hint : Find the inverse of g and substitute -5.

Answer: -3



Online Exams

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Consider the following raw operation and find the value

$$\begin{bmatrix} 1 & 2 & 1 & 3 \\ 2 & 4 & 0 & 9 \\ 3 & 4 & 8 & 0 \end{bmatrix}$$

$$r_3' = r_3 - 3r_1$$



$$\begin{bmatrix} a & b & c & d \\ e & f & g & h \\ i & j & k & l \end{bmatrix}$$

$$a = :$$

$$b = :$$

$$c = :$$

$$d = :$$

$$e = :$$

$$f = :$$

Question 12

Not yet answered

Marked out of
1.00

Try again

Consider the following function.

$$g: \mathbb{R} \rightarrow \mathbb{R} \quad g(x) = \frac{(-2x + 1)}{3}$$

Find $g^{-1}(-3)$

Hint : Find the inverse of g and substitute -3.

Answer:

Online Exams

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Consider the following linear system of equations.

$$x + y + z = 1$$

$$2x + y - z = 4$$

$$x - 2y + az = 0$$

Find the value of a if the above system of equations have no solution.

Answer:

Question 11

Not yet answered

Marked out of
6.00

Flag question

Find the values of the resulting matrix.

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



$$\begin{bmatrix} 1 & 0 & 0 & a & b & c \\ 0 & 1 & 0 & d & e & f \\ 0 & 0 & 1 & 1 & 2 & -1 \end{bmatrix}$$

$a = 0$

$b = -2$

$c = 3$

$d = -3$

$e = -4$

$f = 5$

≡ Quiz navigation**DECLARATION****EXAM QUESTIONS**

1	2	3	4	5	6
8	9	10	11	12	13
15	16	17	18	19	20
22	23	24	25	26	27
i					

Finish attempt ...

Time left 0:50:20

Online Exams

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Consider the following function.

$$g: R \rightarrow R \quad g(x) = \frac{(5x - 9)}{2}$$

Find $g^{-1}(3)$

Hint : Find the inverse of g and substitute -5.

Answer: -1/5

If $|A| = 71$ then find the cofactor matrix of A.

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

C_{11} Choose... ▾

C_{12} Choose... ▾

C_{13} Choose... ▾

C_{21} Choose... ▾

C_{22} Choose... ▾

Question 12

Not yet answered

Marked out of
1.00

Flag question

Consider the following function.

$$g: R \rightarrow R \quad g(x) = \frac{(-2x + 1)}{3}$$

Find $g^{-1}(-3)$

Hint : Find the inverse of g and substitute -3.

Answer:

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 =	Choose...
	Choose...
b =	2
	-1
c =	-5
	1
d =	-3
	3
e =	4
	6
f =	-2

Online Exams

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Consider the following function.

$$g: R \rightarrow R \quad g(x) = \frac{(5x - 5)}{4}$$

Find $g^{-1}(-5)$

Hint : Find the inverse of g and substitute -5.

Answer:

Online Exams

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Consider the following function.

$$g: R \rightarrow R \quad g(x) = \frac{(10-x)}{5}$$

Find $g^{-1}(-3)$

Hint : Find the inverse of g and substitute -3 .

Answer:

Question 11

Not yet answered

Marked out of
6.00

Flag question

Find the values of the resulting matrix.

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



$$\begin{bmatrix} 1 & 0 & 0 & a & b & c \\ 0 & 1 & 0 & d & e & f \\ 0 & 0 & 1 & 1 & 2 & -1 \end{bmatrix}$$

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

DECLARATION

EXAM QUESTIO

Finish attempt...

Time left 0:51:02

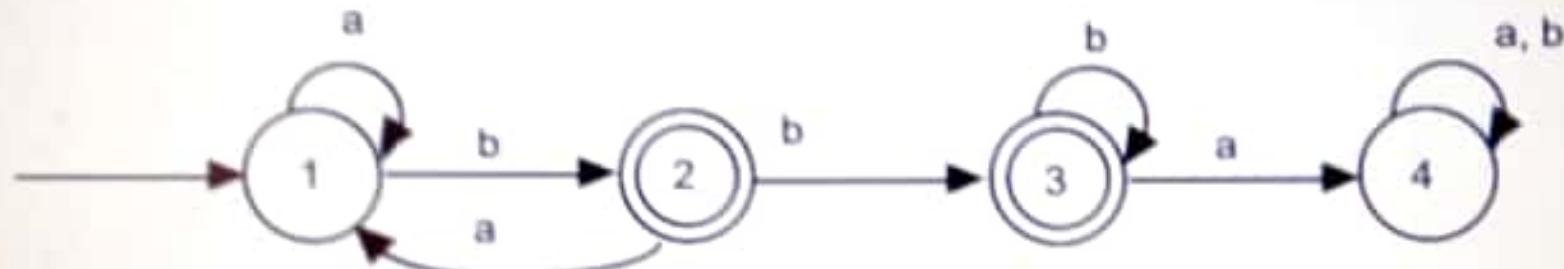
Question 13

Not yet answered

Marked out of
4.00

Flag question

Consider the following finite state Machine A.



What is the initial State?

To what state does A go if abbabaaba input to A in sequence starting from the initial state?

Find $N(2, a)$

Find $N(3, b)$

1

4

1

3

x



Online Exams

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$$4x - 2y = 8$$

$$3x - 5y = -1$$

Represent the above equations in $Ax = b$ form.

Let $\text{adj } A = \begin{bmatrix} p & q \\ r & s \end{bmatrix}$

Find the Following.

$$|A| = :$$

$$p = :$$

$$q = :$$

$$r = :$$

$$s = :$$

$$x = :$$

$$y = :$$

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}

Choose... ▾

Choose...

23

14

-14

-23

4

-4

40

24

10

-40

-8

-10

15

41

8

C_{21}

C_{22}

C_{23}

Choose... ▾

C_{31}

Choose... ▾

C_{32}

Choose... ▾

Online Exams

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Consider the following linear system of equations.

$$x + y + z = 3$$

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

$$x - y + az = -1$$

Find the value of a if the above system of equations have no

Answer:

$$3x - 4y = 1$$

$$2x + 3y = 12$$

Represent the above equations in $Ax = b$ form.

Let $\text{adj } A = \begin{bmatrix} p & q \\ r & s \end{bmatrix}$

Find the Following.

$$|A| = :$$

$$p = :$$

$$q = :$$

$$r = :$$

$$s = :$$

$$x = :$$

$$y = :$$



Consider the following linear system of equations.

$$x + y - z = -3$$

$$2x + y + z = -1$$

$$x + 2y + az = 1$$

Find the value of a if the above system of equations have no solution.

Answer: 2

Find the values of the resulting matrix.

$$\begin{bmatrix} 1 & 0 & -2 & 1 & 0 & -1 \\ 0 & 1 & 0 & 0 & 0 & 1 \\ 0 & 0 & 3 & 3 & 0 & 6 \end{bmatrix}$$



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

a = choose...

b = choose...

c = choose...

d = choose...

e = choose...

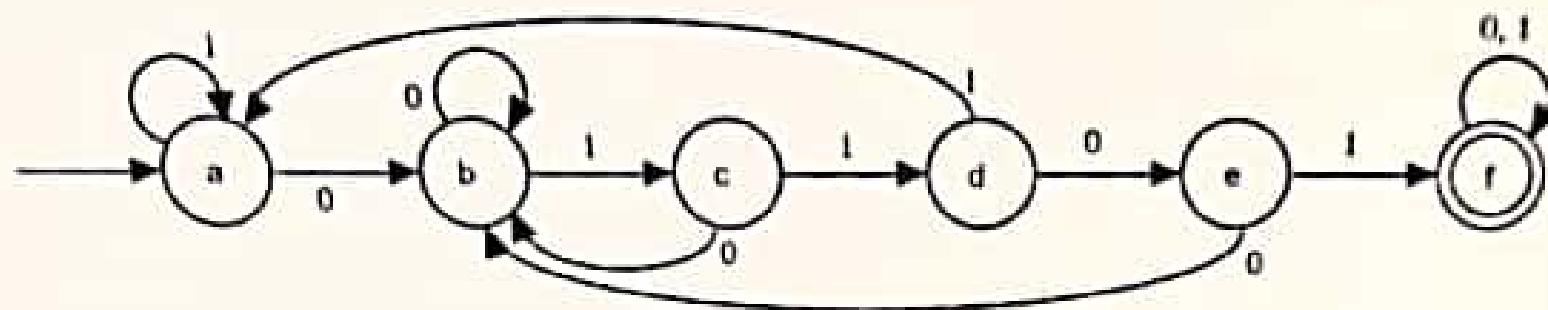
f = choose...



Online Exams

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Consider the following finite state Machine A.



What is the initial State?

To what state does A go if 1010111 input to A in sequence starting from the initial state?

Find $N(d, 1)$

Find $N(f, 0)$

a	.
a	.
b	.
c	.
d	.
e	.
f	.





Online Exams

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2

swered

ut of

question

Consider the following function.

$$g: R \rightarrow R \quad g(x) = \frac{(5x - 15)}{2}$$

Find $g^{-1}(5)$

Hint : Find the inverse of g and substitute 5.

Answer:

I



Online Exams

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Consider the following linear system of equations:

$$x + y + z = -2$$

$$x - y - z = 4$$

$$-x - y + az = -2$$

Find the value of a if the above system of equations has a unique solution.

Answer:



Consider the following function.

$$g: R \rightarrow R \quad g(x) = \frac{(9+x)}{3}$$

Find $g^{-1}(2)$

Hint : Find the inverse of g and substitute 2.

Answer:

ion 11

et answered
ed out of
ag 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 =



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$$4x - 2y = 8$$

$$3x - 5y = -1$$

Represent the above equations in $Ax = b$ form.

Let $\text{adj } A = \begin{bmatrix} p & q \\ r & s \end{bmatrix}$

Find the Following.



$$|A| = :$$

$$p = :$$

$$q = :$$

$$r = :$$

$$s = :$$

$$x = :$$

$$y = :$$



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Question 10

Not yet answered

Marked out of
1.00

 Flag question

Consider the following linear system of equations.

$$x + 2y + z = 1$$

$$x + y - z = 0$$

$$2x + 2y + az = 5$$

Find the value of a if the above system of equations have no solution.

Answer:

[Next page](#)



[Finish attempt ...](#)

Time left 1:05:53

≡ Quiz navigation

DECLARATION



EXAM QUESTIONS

1	2	3	4	5	6	7
9	10	11	12	13	14	15
17	18	19	20	21	22	23
25	26	27	28	1		

Question 7

Not yet answered

Marked out of
7.00

Flag question

Consider the following linear system.

$$x + y + 2z = 1$$

$$2x + y - 3z = 8$$

$$x - y + z = 0$$

$$x = \frac{|A_1|}{|A|} \quad y = \frac{|A_2|}{|A|} \quad z = \frac{|A_3|}{|A|}$$

Find the following.

$$|A_1| = :$$

$$|A_2| = :$$

$$|A_3| = :$$

$$|A| = :$$

$$x = :$$

$$y = :$$

$$z = :$$

Consider the following linear system.

$$x + y + 2z = 1$$

$$2x + y - 3z = 8$$

$$x - y + z = 0$$

$$x = \frac{|A_1|}{|A|} \quad y = \frac{|A_2|}{|A|} \quad z = \frac{|A_3|}{|A|}$$

Find the following.

$$|A_1| = : \boxed{}$$

$$|A_2| = : \boxed{}$$

$$|A_3| = : \boxed{}$$

$$|A| = : \boxed{}$$

$$x = : \boxed{}$$

$$y = : \boxed{}$$

$$z = : \boxed{}$$

$$3x - 5y = 1$$

$$4x - 3y = 5$$

Represent the above equations in $Ax = b$ form.

Let $\text{adj } A = \begin{bmatrix} p & q \\ r & s \end{bmatrix}$

Find the Following.

$$|A| = : 11$$

$$p = : -3$$

$$q = : 5$$

$$r = : -4$$

$$s = : 3$$

$$x = : 2$$

$$y = : 1$$

$$2x + 3y = 7$$

$$3x - 5y = 1$$

Represent the above equations in $Ax = b$ form.

Let $\text{adj } A = \begin{bmatrix} p & q \\ r & s \end{bmatrix}$

Find the Following.

$$|A| = : \boxed{}$$

$$p = : \boxed{}$$

$$q = : \boxed{}$$

$$r = : \boxed{}$$

$$s = : \boxed{}$$

$$x = : \boxed{}$$

$$y = : \boxed{}$$

Consider the following linear system.

$$x + y + z = 0$$

$$2x + 3y + z = 4$$

$$x - 3y + 2z = -10$$

$$x = \frac{|A_1|}{|A|} \quad y = \frac{|A_2|}{|A|} \quad z = \frac{|A_3|}{|A|}$$

Find the following.

$$|A_1| = : \boxed{}$$

$$|A_2| = : \boxed{}$$

$$|A_3| = : \boxed{}$$

$$|A| = : \boxed{}$$

$$x = : \boxed{}$$

$$y = : \boxed{}$$

$$z = : \boxed{}$$

$$3x - 4y = 1$$

$$2x + 3y = 12$$

Represent the above equations in $Ax = b$ form.
Let $\text{adj } A = \begin{bmatrix} p & q \\ r & s \end{bmatrix}$

Find the Following.

$$|A| = : \boxed{}$$

$$p = : \boxed{}$$

$$q = : \boxed{}$$

$$r = : \boxed{}$$

$$s = : \boxed{}$$

$$x = : \boxed{}$$

$$y = : \boxed{}$$



Consider the following linear system.

$$x + y - z = 2$$

$$2x - 3y + 4z = -7$$

$$y + z = 0$$

$$x = \frac{|A_1|}{|A|} \quad y = \frac{|A_2|}{|A|} \quad z = \frac{|A_3|}{|A|}$$

Find the following.

$$|A_1| = : 0$$

$$|A_2| = : -11$$

$$|A_3| = : 11$$

$$|A| = : -11$$

$$x = : 0$$

$$y = : -1$$

$$z = : + 1$$



Online Exams

Sri Lanka Institute of Information Technology

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ag question

Find the determinant of A.

$$A = \begin{bmatrix} 2 & -3 & 5 \\ -3 & 6 & 2 \\ 1 & -2 & 5 \end{bmatrix}$$

Answer: 17

I

Find the determinant of A.

$$A = \begin{bmatrix} -5 & -8 & 8 \\ 7 & 9 & -4 \\ 6 & 5 & 6 \end{bmatrix}$$

Answer: -554

I

Find the determinant of A.

$$A = \begin{bmatrix} -5 & -8 & 8 \\ 7 & 9 & -4 \\ 6 & 5 & 6 \end{bmatrix}$$



Answer:

Following adjacency matrix represents a graph

1	0	1	2
1	1	0	1
0	1	0	1
0	1	0	0

Find the following.

This graph is a

- Undirected Graph
- Directed Graph

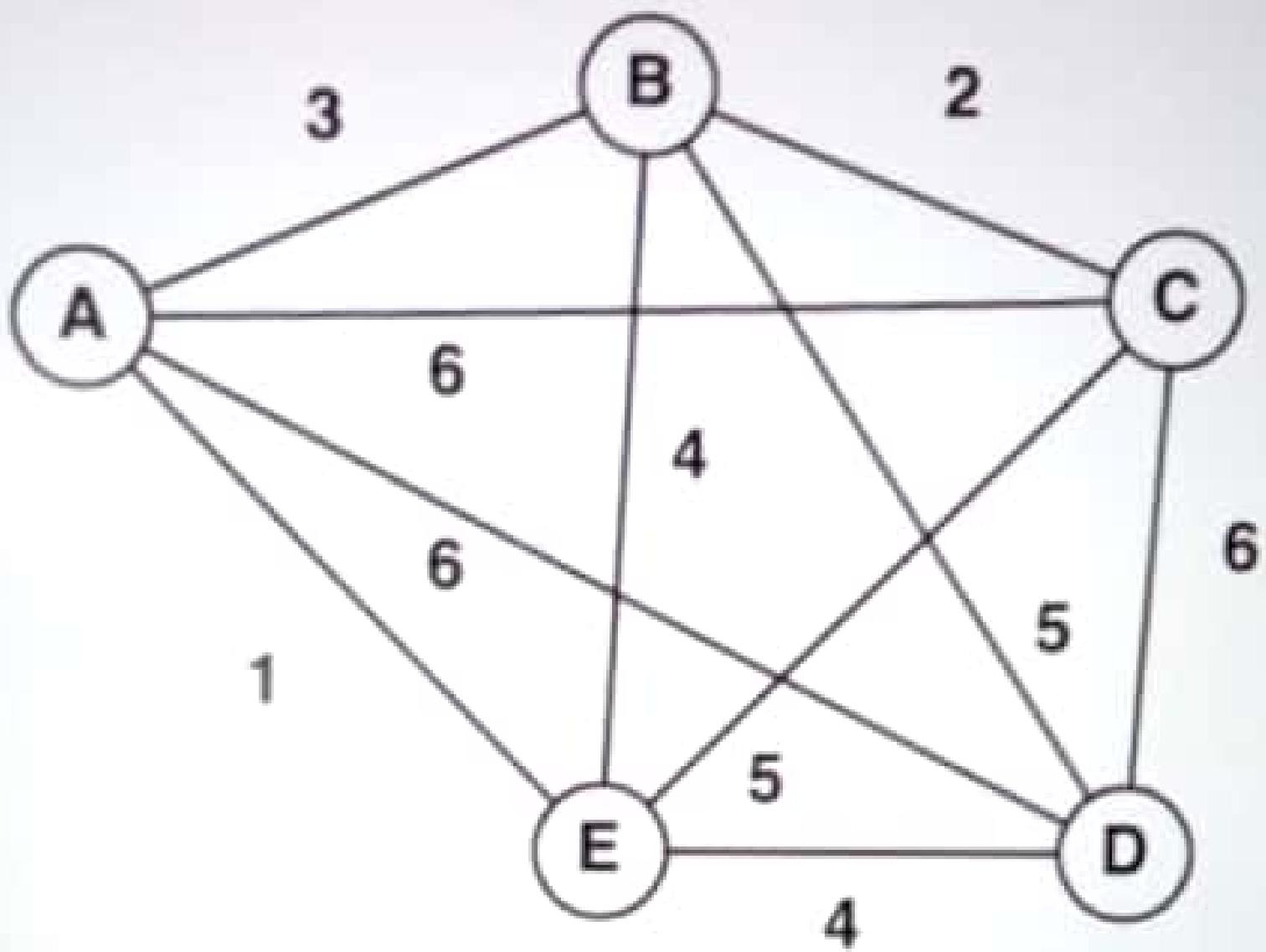
Number of Loops = : 1

Number of Edges = :

Number of Vertices = :



Consider the following graph.



Determine whether the above graph has the following.

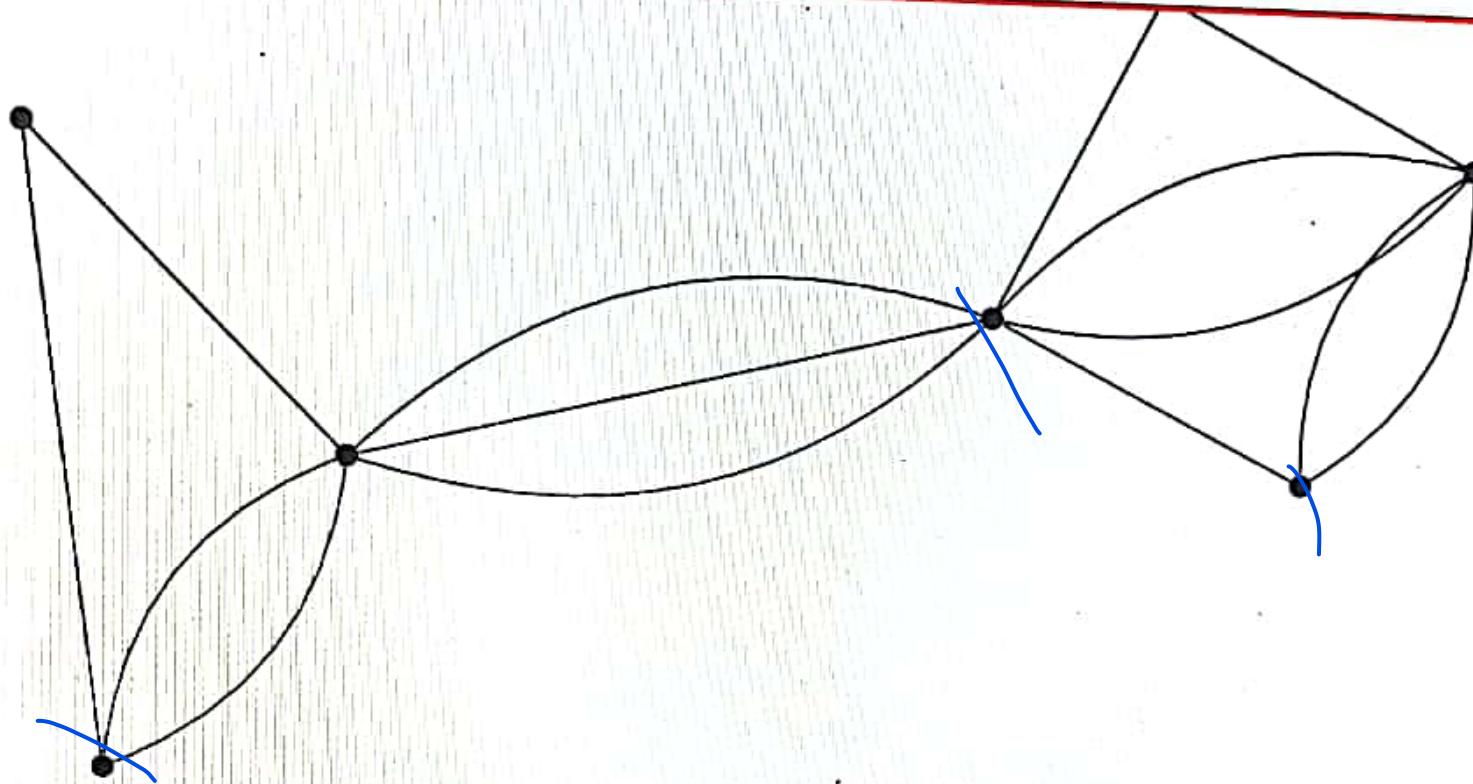
Hamiltonian Path: Yes *

Hamiltonian Circuit: Yes *

Euler Path: No *

Euler Circuit: Yes *

out of
question



Determine whether the above graph has the followings.

Hamiltonian Path Yes



Hamiltonian Circuit Yes



Euler Path No



Euler Circuit No



DECLARATION

EXAM QUESTIONS

1	2	3	4	5	6
8	9	10	11	12	13
15	16	17	18	19	20
22	23	24	25	26	27
I					

Finish attempt ...

Time left 1:52:26

Select one:

- A
- B
- C
- D

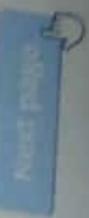
Question 1
Not yet answered
Marked out of
0.00
Flag question
$$\overline{(A + B)}(C + \overline{B} + \overline{C})(B + (\overline{C} + B + \overline{C})) + A + B + C$$

Simplify the following boolean expression.

1

- A+B+C
- B
- C
- D

None of the above


Next page

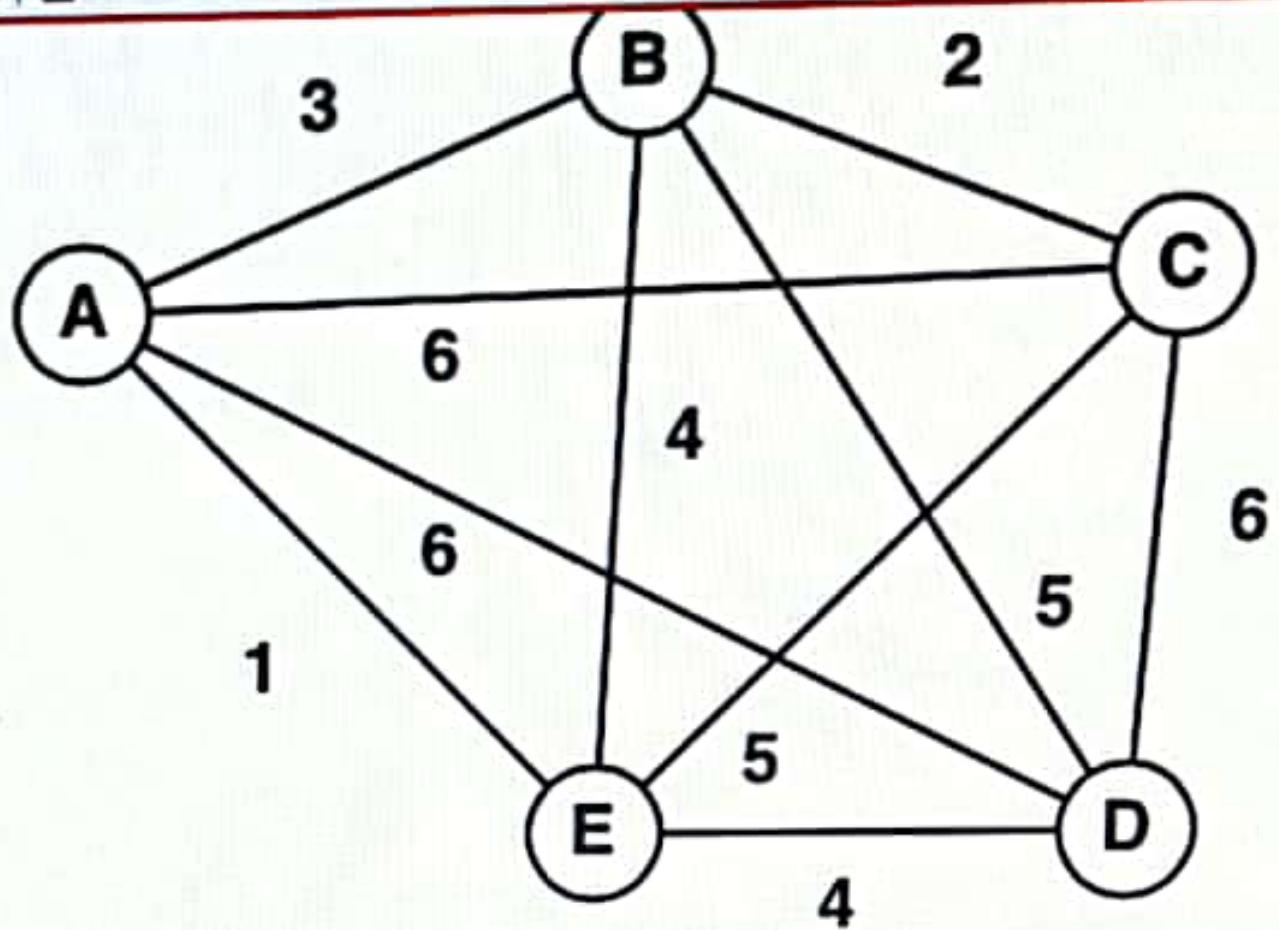
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Find the determinant of A.

$$A = \begin{bmatrix} 5 & 4 & 7 \\ 3 & -6 & 5 \\ 4 & 2 & -3 \end{bmatrix}$$

Answer: 186



Determine whether the above graph has the followings.

Hamiltonian Path: Yes

Hamiltonian Circuit: Yes

Euler Path: No

Euler Circuit: Yes



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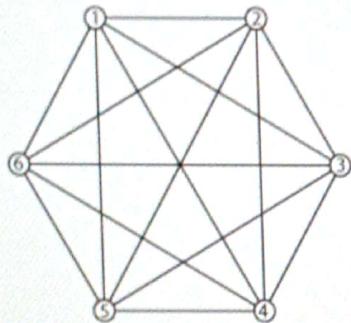
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Question 2

Not yet answered

Marked out of
4.00 Flag question

Consider the following graph.



Determine whether the above graph has the followings.

Hamiltonian Path

Choose... ▾



Hamiltonian Circuit

Choose... ▾



Euler Path

No ▾



Euler Circuit

No ▾



Consider the following system of linear equations.

$$x + 2y + z = 1$$

$$2x - 3y - z = 6$$

$$x - y - z = 2$$

Represent the above equations in $A\begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} b_1 \\ b_2 \\ b_3 \end{pmatrix}$ form.

Assume that you solve this using Cramer's Rule.

Then $y = \frac{|A_2|}{|A|}$

Answer for $|A_2|$

-5

Answer for $|A|$

5

Answer for y

-1

Consider the following system of linear equations.

$$2x + 4y = 22$$

$$3x - 2y = 1$$

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

Find $|A|$.

Find the $\text{adj } A$

Let $\text{adj } A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$

Find x and y .

	Choose...
Answer for $ A $	-2
	2
	9
	8
Answer for a	-16
	-4
	-8
Answer for b	3
	3
	-9
Answer for c	4
	Choose...
Answer for d	Choose...

Answer for x

**Question 11**

Not yet answered

Marked out of
4.00 Flag question

Following adjacency matrix represents an undirected graph.

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

Find the following.

Number of loops

Number of edges

8

Number of vertices

4

Total degree

16

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Consider the following degree sequence.

4, 3, 2, 1, 1, 1

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

Choose...

*yes

Does this graph have an Euler Path?

Yes

no

Does this graph have an Euler circuit?

Choose...

no

How many edges are in the above graph?

Choose...

6

Choose...

6

18

12

24

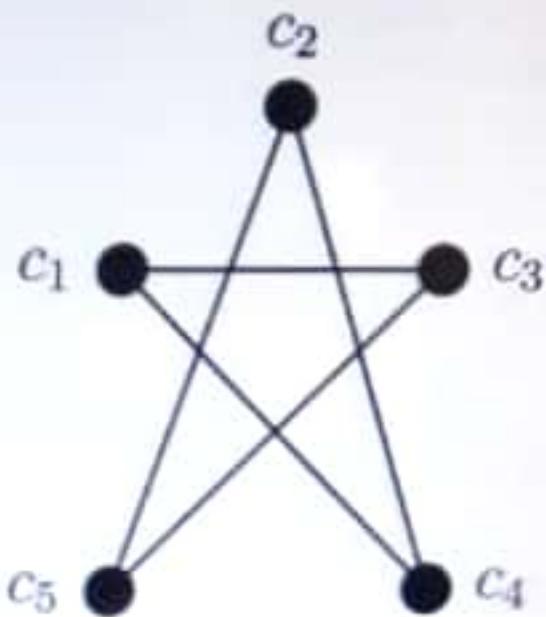
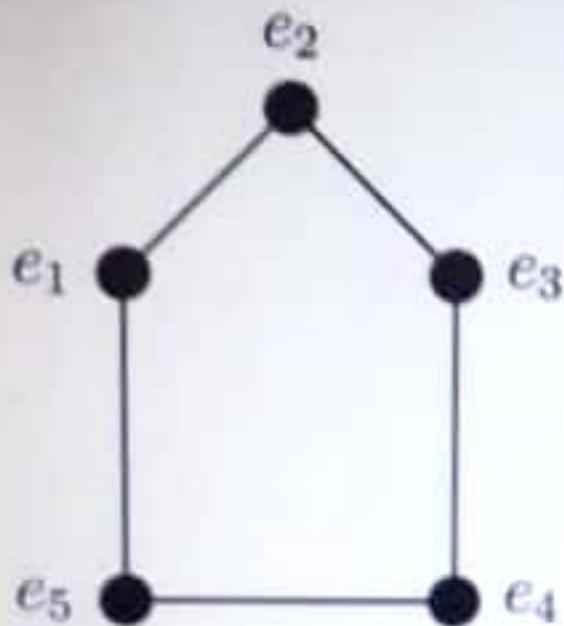
No

Not Applicable

Yes

10

What is the correct statement about the following 2 graphs.



Select one:

- Two graphs are isomorphic
- Two graphs are not isomorphic
- The two graphs have different degree sequences
- None of the above

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Simplify the following boolean expression.

$$F = A + \bar{A}B + \bar{A}\bar{B}\bar{C} + \bar{A}\bar{B}\bar{C}\bar{D} + \bar{A}\bar{B}\bar{C}\bar{D}\bar{E}$$

Select one:

- F = A + B + C + CDE
- F = A + B + C + DE
- F = A + B + C + D + E
- F = A + B + B(C + DE)
- None of the above



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ng question

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)?

$$26^3 \cdot 10^3$$

Answer: