

Started on Wednesday, 27 December 2023, 12:31 PM

State Finished

Completed on Wednesday, 27 December 2023, 12:50 PM

Time taken 19 mins 35 secs

Grade 26 out of 30 (87%)

Question 1

Correct

Mark 2 out of 2

Matrix addition and matrix multiplication both are commutative.

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question 2

Correct

Mark 2 out of 2

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

- ☐ a. None
- ☐ b. Small systems with 4 unknowns
- ☐ c. Systems with two unknowns
- ☒ d. Large Systems ✓

Your answer is correct.

The correct answer is:

Large Systems

Question 3

Correct

Mark 2 out of 2

Find the values of x, y, z in the following system of equations by Gauss Elimination Method.

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

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

$$z = 6$$

- ☐ a. 3,4,6
- ☐ b. 2,7,6
- ☐ c. None
- ☒ d. 2,4,6 ✓

Your answer is correct.

The correct answer is:

2,4,6

Question 4

Correct

Mark 2 out of 2

if X,Y,Z, are square matrices of (nxn) and

$$X = YZY^{-1} \text{ then } \det(X) = \det(Z)$$

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 5

Correct

Mark 2 out of 2

The equation $f(x)$ is given as $x^2 - 4 = 0$. Considering the initial approximation at $x = 6$ then the value of next approximation correct upto 2 decimal places is given as _____

- ☐ a. None
- ☒ b. 3.33 ✓
- ☐ c. 1.33
- ☐ d. 2.33
- ☐ e. 4.33

Your answer is correct.

The correct answer is:
3.33

Question 6

Incorrect

Mark 0 out of 2

If a function is real and continuous in the region from a to b and $f(a)$ and $f(b)$ have opposite signs then there is no real root between a and b .

- ☒ True ✗
- ☐ False

The correct answer is 'False'.

Question 7

Correct

Mark 2 out of 2

The solution of $x^2 + 4 = 0$ is

- ☐ a. +2 or -2
- ☒ b. None ✓
- ☐ c. -2
- ☐ d. 2

Your answer is correct.

The correct answer is:
None

Question 8

Correct

Mark 2 out of 2

The solution to the equation

$$x^2 - 5x + 6 = 0$$

- ☐ a. 3
- ☒ b. 2 and 3 ✓
- ☐ c. 2
- ☐ d. No solution

Your answer is correct.

The correct answer is:
2 and 3

Question 9

Correct

Mark 2 out of 2

The equation $f(x)$ is given as $x^3 - x^2 + 4x - 4 = 0$. Considering the initial approximation at $x=2$ then the value of next approximation correct upto 2 decimal places is given as _____

- ☒ a. 1.33 ✓
- ☐ b. None
- ☐ c. 1.5
- ☐ d. 0.67
- ☐ e. 1.00

Your answer is correct.

The correct answer is:
1.33

Question 10

Correct

Mark 2 out of 2

The tangent Method is called-----

- ☐ a. None
- ☐ b. Bisection
- ☒ c. Newton Method ✓
- ☐ d. Secant Method

Your answer is correct.

The correct answer is:

Newton Method

Question 11

Incorrect

Mark 0 out of 2

Determine the number of solutions of L.S.

$$x-y=12$$

$$x+y=0$$

- ☐ a. many solutions
- ☒ b. no solution ✗
- ☐ c. one solution
- ☐ d. None

Your answer is incorrect.

The correct answer is:

one solution

Question 12

Correct

Mark 2 out of 2

The Det of a matrix $M = \begin{bmatrix} 0 & 4 & 0 \\ 2 & 50 & 2 \\ 1 & -2 & -8 \end{bmatrix}$

- ☐ a. 70
- ☒ b. 72 ✓
- ☐ c. 50
- ☐ d. None

Your answer is correct.

The correct answer is:
72

Question 13

Correct

Mark 2 out of 2

for a system of m linear equations and n variables Cramer's Rule is applicable when

- ☐ a. None
- ☐ b. $m=n$ and Coefficient matrix is singular
- ☐ c. $m < n$ only
- ☒ d. $m=n$ and Coefficient matrix is non singular ✓

Your answer is correct.

The correct answer is:
 $m=n$ and Coefficient matrix is non singular

Question 14

Correct

Mark 2 out of 2

given the following function $f(x)$ on the interval $[2,5]$ the first iteration using the bisection method $f(m)$ is

$$5x^2 - 5x + 4$$

- ☐ a. 0.687
- ☐ b. 2.25
- ☒ c. Bisection Cannot be applied ✓
- ☐ d. -0.687

Your answer is correct.

The correct answer is:

Bisection Cannot be applied

Question 15

Correct

Mark 2 out of 2

The addition of matrices is only possible if they are of the same order.

- ☒ True ✓
- ☐ False

The correct answer is 'True'.



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☐ True☐ False**Question 25**

Not yet answered

Marked out of 1

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Diagonal matrix is a square Matrix is where all elements are zero's except those on the first row

Select one:

☐ True☒ False[Previous page](#)[Finish attempt ...](#)



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Question 22

Not yet answered

Marked out of 1

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

- ☐ a. Small systems with 4 unknowns
- ☐ b. None of them
- ☒ c. Large systems
- ☐ d. Systems with 3 unknowns
- ☐ e. Systems with 2 unknowns

Question 23

Not yet answered

Marked out of 1

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The solution for the system

$$2x - y = 8$$

$$x - 2y = 4$$

$$(x, y) = ?$$

Select one:

- ☒ a. (4,0)
- ☐ b. (0,0)
- ☐ c. (0,4)
- ☐ d. (2,2)

Question 18

Not yet answered

Marked out of 1

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Question 18

Not yet answered

Marked out of 1

[Flag question](#) [Edit question](#)***The det of the matrix***

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

Select one:

☐ a. 1☒ b. 0☐ c. 2☐ d. -1**Question 19**

Not yet answered

Marked out of 1





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given the following function $f(x)$ on the interval $[2,5]$ the first iteration using the bisection method $f(m)$ is

$$5x^2 - 5x + 4$$

- ☐ a. 2.25
- ☐ b. None of them
- ☒ c. Bisection can not be applied
- ☐ d. 0.687
- ☐ e. -0.687

Question 22

Not yet answered

Marked out of 1





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Question 20

Not yet answered

Marked out of 1

[Flag question](#) [Edit question](#)The minor m_{13} of the matrix $A =$

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

- ☐ a. none of them
- ☐ b. 1
- ☒ c. 0
- ☐ d. 2
- ☐ e. -2

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Not yet answered

Marked out of 1

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$$\begin{bmatrix} 3 & -3 \\ -2 & 4 \end{bmatrix}^{-1} =$$

Select one:

☐ a. $\begin{bmatrix} 4 & 3 \\ 18 & 18 \\ 2 & 3 \\ 18 & 18 \end{bmatrix}$

☒ b. $\begin{bmatrix} 4 & 3 \\ 6 & 6 \\ 2 & 3 \\ 6 & 6 \end{bmatrix}$

☐ c. $\begin{bmatrix} -4 & 3 \\ 6 & 6 \\ 2 & -3 \\ 6 & 6 \end{bmatrix}$

☐ d. $\begin{bmatrix} -4 & 3 \\ 18 & 18 \\ 2 & -3 \\ 18 & 18 \end{bmatrix}$

Question 12

Not yet answered





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Question 13

Not yet answered

Marked out of 1

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Determine the number of solutions of the linear system:

$$14x - 5y = 123$$

$$14x - 5y = 73$$

- ☒ a. no solution
- ☐ b. none of them
- ☐ c. two solutions
- ☐ d. one solution
- ☐ e. infinite solutions

Question 14

Not yet answered

Marked out of 1





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given the following equation

X has the following solutions:

$$x^2 = 16$$

- ☐ a. (+2,-4)
- ☒ b. (+4,-4)
- ☐ c. (+4,-2)
- ☐ d. No Solution

Question 20

Not yet answered

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Question 9

Not yet answered

Marked out of 1

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The bisection method of finding roots of non linear equations falls under the category of an ----- method

Select one:

- ☐ a. None of Them
- ☐ b. random
- ☒ c. both an iterative method and a bracketing
- ☐ d. Graphical
- ☐ e. open

Question 10

Not yet answered

Marked out of 1





Question 1

Not yet answered

Marked out of 1

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The dimensions of the following matrix are $n \times m$.

$$\begin{bmatrix} a_{11} & a_{12} \dots & a_{1j} & a_{1n} \\ a_{21} & a_{22} \dots & a_{2j} & a_{2n} \\ \vdots & \vdots & \vdots & \vdots \\ a_{m1} & a_{m2} & a_{mj} & a_{mn} \end{bmatrix}$$

(1 points)

Select one:

☐ True

☒ False

Question 2

Not yet answered

Marked out of 1





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Determine the root of the given equation $x^2 - 3 = 0$ for $x \in [1, 2]$ using Bisection method

The value of $f(x_1)$ at the first iteration

The value of $f(x_2)$ at the second iteration

The value of $f(x_3)$ at the third iteration

The value of $f(x_4)$ at the fourth iteration

The value of $f(x_5)$ at the fifth iteration

The value of $f(x_6)$ at the sixth iteration

3 5 2 6





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Question 3

Not yet answered

Marked out of 1

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Which of the following matrix is Singular ?

☒ a. $\begin{bmatrix} 3 & 12 \\ 2 & 8 \end{bmatrix}$

☐ b. $\begin{bmatrix} 31 & 12 \\ 26 & 8 \end{bmatrix}$

☐ c. $\begin{bmatrix} 37 & 12 \\ 51 & 10 \end{bmatrix}$

☐ d. $\begin{bmatrix} 31 & 12 \\ 26 & 10 \end{bmatrix}$

Question 4

Not yet answered



Question 3: Which of the following matrix is singular?

Let $A = \begin{bmatrix} 1 & 1 & 0 \\ 2 & 2 & 3 \end{bmatrix}$ and $B = \begin{bmatrix} 1 & 1 \\ 2 & 2 \end{bmatrix}$. Then $(AB)^T =$

Find the determinant of the matrix $A = \begin{bmatrix} 1 & 2 & 3 \\ 2 & 3 & 4 \\ 3 & 4 & 5 \end{bmatrix}$.

Find the rank of the matrix $A = \begin{bmatrix} 1 & 2 & 3 \\ 2 & 3 & 4 \\ 3 & 4 & 5 \end{bmatrix}$.

Find the rank of the matrix $A = \begin{bmatrix} 1 & 2 & 3 \\ 2 & 3 & 4 \\ 3 & 4 & 5 \end{bmatrix}$.

Find the rank of the matrix $A = \begin{bmatrix} 1 & 2 & 3 \\ 2 & 3 & 4 \\ 3 & 4 & 5 \end{bmatrix}$.





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**Question 4**

Not yet answered

Marked out of 1

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Find the values of x, y, z in the following system of equations by Gauss Elimination Method.

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

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

$$z = 6$$

- ☐ a. 3,4,6
- ☐ b. 2,7,6
- ☒ c. 2,4,6
- ☐ d. None of them
- ☐ e. 2,4,5





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☐ e. 2,4,5**Question 5**

Not yet answered

Marked out of 1

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Determine the number of solutions of the linear system:

$$x - y = 12$$

$$x + y = 0$$

- ☐ a. no solution
- ☒ b. one solution
- ☐ c. infinite solutions
- ☐ d. two solutions

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Question 2

Not yet answered

Marked out of 1

[Flag question](#) [Edit question](#)The Det of a matrix $M =$

$$\begin{bmatrix} 0 & 4 & 0 \\ 2 & 50 & 2 \\ 1 & -2 & -8 \end{bmatrix}$$

- ☒ a. 72
- ☐ b. None of them
- ☐ c. -54
- ☐ d. 0
- ☐ e. -72

Question 3

Not yet answered

Marked out of 1

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Question 8

Not yet answered

Marked out of 1

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$$\text{If } A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}, \text{ then } A^{-1} = \begin{bmatrix} \frac{d}{|A|} & \frac{-b}{|A|} \\ \frac{-c}{|A|} & \frac{a}{|A|} \end{bmatrix}$$

Select one:

☒ True☐ False

Question 9

Not yet answered

Marked out of 1

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Let: (2 points)

$$A = \begin{bmatrix} 1 & 1 & 0 \\ 0 & 2 & 3 \end{bmatrix}, B = \begin{bmatrix} 1 \\ 1 \\ 2 \end{bmatrix}$$

Then:

$$(AB)^T =$$

Select one:

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

☐ b. $\begin{bmatrix} 1 & 1 & 2 \end{bmatrix}$

☒ c. $\begin{bmatrix} 2 & 8 \end{bmatrix}$

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





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Not yet answered

Marked out of 1

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The following matrix represents

$$\begin{bmatrix} 1 & 7 & 4 & 4 \\ 0 & 1 & 7 & 4 \\ 0 & 0 & 7 & 8 \\ 0 & 0 & 0 & 3 \end{bmatrix}$$

Select one:

- ☒ a. Upper triangular matrix
- ☐ b. Diagonal matrix
- ☐ c. Identity matrix
- ☐ d. Lower triangular matrix

Question 13

Not yet answered

Marked out of 1





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Question 6

Not yet answered

Marked out of 1

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The forward Computation of Gauss elimination is to reduce the matrix to -----
---- matrix

- ☐ a. Unity
- ☐ b. Diagonal
- ☐ c. None of them
- ☒ d. Upper
- ☐ e. Lower

Question 7

Not yet answered

Marked out of 6

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Question 15

Not yet answered

Marked out of 1

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. Cramer's Rule fails for _____

- ☐ a. Determinant > 0
- ☐ b. None of them
- ☐ c. Determinant non real number
- ☐ d. Determinant < 0
- ☒ e. Determinant $= 0$

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allowed list.

This quiz is currently not available.

Question 16

Not yet answered

Marked out of 1

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if A, B, C square matrices $B = ACA^{-1}$ then $\det(B) =$

Select one:

- ☒ a. $\det(C)$
- ☐ b. neither $\det(A)$ nor $\det(C)$
- ☐ c. $\det(A)$ and $\det(C)$
- ☐ d. $\det(A)$

Question 17

Not yet answered

Marked out of 1

01:23





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The Transpose of the following matrix

$$\begin{bmatrix} 1 & 3 & -2 \\ -1 & 7 & 0 \\ 1 & 0 & 8 \end{bmatrix}$$

(1 points)

☐ a. None of them

☐ b.
$$\begin{bmatrix} 1 & 1 & -2 \\ 1 & 7 & 0 \\ -2 & 1 & 8 \end{bmatrix}$$

☒ c.
$$\begin{bmatrix} 1 & -1 & 1 \\ 3 & 7 & 0 \\ -2 & 0 & 8 \end{bmatrix}$$

☐ d.
$$\begin{bmatrix} 1 & 1 & -2 \\ -1 & 7 & 0 \\ -2 & 0 & 8 \end{bmatrix}$$

Question 15

Not yet answered

01:18



Q5- Quadratic

Version 1 (latest)

Question 1

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ered

ed out of 1

The solution of $x^2 + 4 = 0$ is

☐ a. +2 or -2

☒ b. None

☐ c. 2

☐ d. -2

Start again

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Fill in correct responses

Submit and finish

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Q3-multi

Version 1 (latest)

Question 1

Not yet
answered

Marked out of 1

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

- ☐ a. $\begin{bmatrix} 12 & 15 \\ 20 & 14 \end{bmatrix}$
- ☐ b. None
- ☐ c. $\begin{bmatrix} 12 & 15 \\ 20 & 14 \end{bmatrix}$
- ☐ d. $\begin{bmatrix} 12 & 15 \\ 20 & 24 \end{bmatrix}$

Start again

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Fill in correct responses

Submit and finish

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☐ a. Nonew

☐ b. 3.12

☒ c. 2.2857

☐ d. 4.11

Save Fill in correct responses Submit and finish Close preview

New options

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d: Deferred feedback

Q7-Matrix

Version 1 (latest)**Question 1**not yet
answered

Marked out of 1

Find x and y

$$2 \begin{bmatrix} 5 & x \\ y-4 & 6 \end{bmatrix} + \begin{bmatrix} -4 & 1 \\ 3 & 2 \end{bmatrix} = \begin{bmatrix} 6 & 3 \\ 10 & 14 \end{bmatrix}$$

- ☐ a. $x=-1, y=-9$
- ☐ b. $x=-1, y=9$
- ☐ c. $x=1, y=-9$
- ☐ d. None
- ☒ e. $x=1, y=9$

Start again

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-Easy Version 2 (latest)

1

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Matrix addition and matrix multiplication both are commutative.

☐ True

☒ False

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being used: Deferred feedback

fraction: 0

n fraction: 1

Q6-Quad

Version 1 (latest)

Question 1

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The solution to the equation

$$x^2 - 5x + 6 = 0$$

☐ a. No solution

☒ b. 2 and 3

☐ c. 2

☐ d. 3

rt again

Save

Fill in correct responses

Submit and finish

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Comments

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Q4 Newton Method Version 1 (latest)

Question 1

Not yet
answered

Marked out of 1

The tangent Method is called-----

- ☐ a. Bisection
- ☐ b. None
- ☐ c. Secant Method
- ☒ d. Newton Method

Start again

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?
Behaviour being used: Deferred feedback

Minimum fraction: 0

Maximum fraction: 1

Cramer

Version 1 (latest)

for a system of m linear equations and n variables Cramer's Rule is applicable when

- ☐ a. $m < n$ only
- ☒ b. $m = n$ and Coefficient matrix is non singular
- ☐ c. None
- ☐ d. $m = n$ and Coefficient matrix is singular

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ction: 0

ction: 1

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Bisection Version 1 (latest)

given the following function $f(x)$ on the interval $[2,5]$ the first iteration using the bisection method $f(m)$ is

$$5x^2 - 5x + 4$$

- ☐ a. -0.687
- ☐ b. 2.25
- ☐ c. 0.687
- ☒ d. Bisection Cannot be applied

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ction: 0

action: 1

ariant: 1

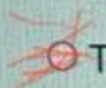
summary: given the following function $f(x)$ on the interval $[2,5]$ the first iteration using the bisection method $f(m)$ is: -0.687 ; 2.25 ; 0.687 ; Bisection Cannot be applied.

2-Matrix **Version 1 (latest)**

1

ut of 1

The addition of matrices is only possible if they are of the same order.



☒ True

☐ False

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being used: Deferred feedback

fraction: 0

h fraction: 1

variant: 1

Bisection Version 1 (latest)

A function is given by $x - e^{-x} = 0$. Find the root between $a = 0$ and $b = 1$ by using Bisection method.

- ☐ a. 0.422
- ☐ b. None
- ☐ c. 0.723
- ☒ d. 0.565

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being used: Deferred feedback

fraction: 0

fraction: 1

variant: 1

summary: A function is given by $x - e^{-x} = 0$. Find the root between $a = 0$ and $b = 1$ by using Bisection method. : 0.422 ; None ; 0.723 ; 0.565

lower summary: 0.565

Q4-Newton Version 1 (latest)

Question 1

Not yet
answered

Marked out of 1

The equation $f(x)$ is given as $x^3 - x^2 + 4x - 4 = 0$. Considering the initial approximation at $x=2$ then the value of next approximation correct upto 2 decimal places is given as _____

- ☐ a. 1.5
- ☐ b. 0.67
- ☒ c. 1.33
- ☐ d. 1.00
- ☐ e. None

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Behaviour being used: Deferred feedback

Minimum fraction: 0

Maximum fraction: 1

Question variant: 1

Question summary: The equation $f(x)$ is given as $x^3 - x^2 + 4x - 4 = 0$. Considering the initial approximation at $x=2$ then the value of next approximation correct upto 2 decimal places is given as _____ : 1.5 : 0.67 : 1.33 : 1.00 : None

Determinants

Version 1 (latest)

if X, Y, Z , are square matrices of $(n \times n)$ and $X = YZY^{-1}$ then $\det(X) = \det(Z)$

☒ True

☐ False

Gain

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being used: Deferred feedback

fraction: 0

fraction: 1

variant: 1

summary: if X, Y, Z , are square matrices of $(n \times n)$ and

answer summary: True

se summary:

on state: todo

Q2-Bisection

Version 1 (latest)

Question 1

yet
answered
marked out of 1

If a function is real and continuous in the region from a to b and $f(a)$ and $f(b)$ have opposite signs then there is no real root between a and b .

☐ True

☒ False

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Comments

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Behaviour being used: Deferred feedback

Minimum fraction: 0

Maximum fraction: 1

Question variant: 1

Question summary: If a function is real and continuous in the region from a to b and $f(a)$ and $f(b)$ have opposite signs then there is no real root between a and b .

Right answer summary: False

Response summary:

Question state: todo

Q6-Newton Version 1 (latest)

Question 1

Not yet
answered
Marked out of 1

The equation $f(x)$ is given as $x^2 - 4 = 0$. Considering the initial approximation at $x = 6$ then the value of next approximation correct upto 2 decimal places is given as _____

- ☐ a. 2.33
- ☒ b. 3.33
- ☐ c. 1.33
- ☐ d. None
- ☐ e. 4.33

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Comments

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Technical information ▼

Behaviour being used: Deferred feedback

Minimum fraction: 0

Maximum fraction: 1

Question variant: 1

Question summary: The equation $f(x)$ is given as $x^2 - 4 = 0$. Considering the initial approximation at $x = 6$ then the value of next approximation correct upto 2 decimal places is given as _____ 2.33 ; 3.33 ; 1.33 ; None ; 4.33



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Question 23

Not yet answered

Marked out of 1

[Flag question](#) [Edit question](#)the co-factor c_{12} of the matrix $A =$

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

- ☐ a. 2
- ☐ b. none of them
- ☒ c. -2
- ☐ d. -1
- ☐ e. 1

Question 24

Not yet answered

Marked out of 1

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