Started on
 Monday, 18 July 2022, 7:17 AM

 State
 Finished

 Completed on
 Monday, 18 July 2022, 7:18 AM

 Time taken
 42 secs

 Grade
 0.00 out of 10.00 (0%)

Question **1**Not answered

Marked out of 0.20

Let $\mathbf{u} = (1, 1, 1), \mathbf{v} = (1, 2, 3), \mathbf{w} = (1, 3, 7) \text{ and } \mathbf{x} = (0, -3, -10).$ Which of the following

- (i) x is a linear combination of u, v, w.
- (ii) $\{u, v, w, x\}$ is linearly independent.
- a. Only (i)

statements is true?

- ob. Neither
- c. Only (ii)
- d. Both

The correct answer is: Only (i)

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Question **2**Not answered

Marked out of 0.20

The dimension of

the solution space of A**x** = **0** if A = $\begin{bmatrix} 1 & -2 & 3 & 4 \\ 3 & -5 & 7 & 8 \end{bmatrix}$ is:

- o a. 0
- ob. 4
- oc. 1
- od. 3
- e. 2

The correct answer is:

2

Question **3**Not answered
Marked out of 0.20

If \mathbf{u},\mathbf{v} and \mathbf{w} are vectors in $\mathbb{R}^n,$ which of the following are true:

- a) $\mathbf{v} \bullet \mathbf{w} = \frac{1}{4}[\|\mathbf{v} + \mathbf{w}\|^2 \|\mathbf{v} \mathbf{w}\|^2]$
- b) $\mathbf{v} \bullet \mathbf{w} = 0$ if and only if $\|\mathbf{v} + \mathbf{w}\|^2 = \|\mathbf{v}\|^2 + \|\mathbf{w}\|^2$
- a. Neither
- b. Only b)
- oc. Both
- d. Only a)
- e. -1

The correct answer is:

Both

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 ${\sf Question}\, {\pmb 4}$

Not answered

Marked out of 0.20

A basis for the eigenspace corresponding to the eigenvalue 1 of the matrix $\begin{bmatrix} 1 & -1 & 4 \\ 3 & 2 & -1 \\ 2 & 1 & -1 \end{bmatrix}$

is:

- a. None of these
- o b. (-1, 4, 1)
- o. (1, -1, -1)
- od. (1, 2, 1)
- e. (-2, 1, 4)

The correct answer is:

(-1, 4, 1)

Question 5	
Not answered	
Marked out of 0.20	
For what value of α is the	e set of vectors $\{(1,1,1),(1,0,2),(1,\alpha,1)\}$ linearly dependent?
○ a2	
o b. 1	
o c. 3	
od. 2	
o e. None of these	
The correct answer is:	
1	
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Question 6	
Not answered Marked out of 0.20	
Marked out of 0.20	
What is the dimension of	the subspace of \mathbb{R}^3 spanned by $(1,2,-1),(1,-2,1),(-3,2,-1)$ and
(2,0,0)?	
○ a. 3	
o b. None of these	
oc. 4	
od. 5	
d. 5e. 2	

The correct answer is: 2

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Question 7Not answered Marked out of 0.20

Let $U = \mathrm{span}\{(1,-2,3,4)\,,(-3,6,-5,-16)\,,(-1,2,-5,-2)\}$. Find all t such that $(1,t,3,4) \in T$ U. a. 2 ob. 1 oc. -2 od. -1 e. None of these

The correct answer is:

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Question ${\bf 8}$ Not answered Marked out of 0.20

If
$$\begin{vmatrix} a & b & c \\ d & e & f \\ g & h & i \end{vmatrix} = 3$$
, find $\begin{vmatrix} 4g & a & d - 2a \\ 4h & b & e - 2b \\ 4i & c & f - 2c \end{vmatrix}$.

- ob. −12
- oc. 24
- od. 6
- e. None of these

The correct answer is:

Question **9**Not answered

Marked out of 0.20

What is the (2,3)-entry of A⁻¹ if

$$A = \left[\begin{array}{ccc} 1 & 1 & 1 \\ 1 & 2 & 3 \\ 0 & 1 & 1 \end{array} \right] ?$$

- a. -2
- ob. 1
- oc. 2
- od. -1
- e. None of these

The correct answer is:

2

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Question 10

Not answered

Marked out of 0.20

Find the (3,2)-cofactor of A if

$$A = \left[\begin{array}{rrr} 1 & 1 & 1 \\ 1 & 2 & 3 \\ 0 & 1 & 1 \end{array} \right].$$

- _ a. 2
- b. None of these
- oc. -2
- od. 1
- _ e. 3

The correct answer is:

-2

Question 11
Not answered
Marked out of 0.20
Suppose A is a 4 x 4 matrix with determinant 7.
Choose the INCORRECT one.
\bigcirc a. $det((2A)^{-1}) = 7/16$
\bigcirc b. $det(A^T) = 7$
oc. det(-A) = -7
\bigcirc d. $det(A^2) = 49$
The correct answer is: det(-A) = -7

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Question 12 Not answered Marked out of 0.20

Find the eigenvalues of the matrix

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

- a. 3, -2
- b. 2, -1
- oc. None of these
- od. 2,-3
- e. 1, -2

The correct answer is: 2, -3

Question 13			
Not answered			
Marked out of 0.20			
Evaluate			
$\int_{1}^{e^2} \frac{\ln y}{\sqrt{y}} dy$			
○ a. 2e - 2			
ob. None of these			
oc. e ² - 1			
od. 4			
○ e. 3			
The correct answer is: 4			

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Question 14
Not answered
Marked out of 0.20

Evaluate the improper integral if it converges.

$$\int_{2}^{\infty} \frac{1}{x^4} dx$$

- a. None of these
- ob. 1/2
- oc. 1/3
- d. It diverges
- e. 1/4

The correct answer is:

None of these

Question **15**Not answered

Marked out of 0.20

Find the average value of the function $f(x) = \frac{1}{\sqrt{x}}$ over [1, 4] .

- a. 1/2
- ob. 2
- oc. 2/3
- od. 1
- e. None of these

The correct answer is: 2/3

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Question 16

Not answered

Marked out of 0.20

Find dy/dx if

$$y = \int_{1-3x}^{1} \frac{u^3}{1+u^2} \, du$$

Select one (if any)

$$(i)\frac{dy}{dx} = \frac{(1-3x)^3}{1+(1-3x)^2}$$

$$(ii)\frac{dy}{dx} = \frac{-3(1-3x)^3}{1+(1-3x)^2}$$

$$(iii)\frac{dy}{dx} = \frac{x^3}{1+x^2}$$

- a. (iii)
- o b. None of these
- _ c. (ii)
- d. (i)

The correct answer is: None of these

Question 17
Not answered
Marked out of 0.20

Use **Trapezoidal Rule** with n = 5 to estimate $\int\limits_0^5 f(x) dx$

given

х	0	1	2	3	4	5
f(x)	5	3	7	-2	1	3

- a. None of these
- b. 26
- oc. 13
- od. 14
- e. 17

The correct answer is: 13

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Question 18

Not answered

Marked out of 0.20

Let $U = \{(a, b, c, d) | 3a - 5b = 0, b + c + d = 0\}$ be a subspace of \mathbb{R}^4 .

Find the dimension of U

- A. 1
- B. 2
- C. 3
- D. 4

a. B

- _ b. C
- _ c. A
- od. B

The correct answer is:

В

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Question **19**Not answered

Marked out of 0.20

Evaluate

$$\lim_{x \to 1} \frac{x^2 - 5x + 2}{x^4 + 8x + 7}$$

Select one:

- a. -3/8
- b. 3/8
- o c. 0
- od. 1/8
- e. -1/8
- oa. E
- o b. D
- c. Ad. C
- e. B

The correct answer is:

Ε

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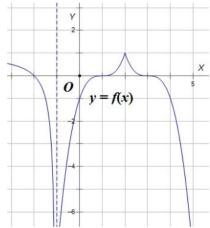
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Question 20

Not answered

Marked out of 0.20

The graph of f(x) is given. State the numbers at which f(x) is not differentiable



Select one:

- a. -1; 2
- o b. 2
- o. 1; 3
- od. -1; 1; 2; 3

○ a. C		
○ b. D		
○ c. B		
○ d. A		
The correct answer is:		
Question 21		

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Let T: \mathbb{R}^2 \to \mathbb{R}^2 be a linear transformation such that T(u) = (1,2), T(v) = (-1,0) for
given u, v \in \mathbb{R}^2. Find T(2u - 3v)
                   B. (-2,4) C. (1,0) D. (5,4)
A. (-2,8)
_ a. D
b. A
_ c. C
_ d. B
```

The correct answer is:

Not answered Marked out of 0.20

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Question 22 Not answered Marked out of 0.20

Use Newton's method with the specified initial approximation $x_1 = 2$ to find x_3 of the following equation $ln(x^2 + 4) - 2x = 0$ Select one: a. 0.71696 b. 0.76070 o. 0.76054 d. 0.71963 _ a. D b. A _ c. C d. B

The correct answer is:

Question 23

Not answered

Marked out of 0.20

Let
$$A = \begin{pmatrix} 1 & * & * & * \\ 0 & 3 & * & * \\ 0 & 0 & 5 & * \\ 0 & 0 & 0 & 7 \end{pmatrix}$$
, where (*) denotes any real number. Compute $det(2A^{-1})$

A. $\frac{2}{105}$

B. 210

C. $\frac{16}{105}$

D. None of the others

a. D

b. C

c. A

d. B

The correct answer is:

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Question 24	
Not answered	
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Find all values m such that the system of equations $\begin{cases} x+y-z=1\\ x+2y+mz=0 \text{ has exactly one } \\ 2x+3y-2z=m \end{cases}$ solution

A. $m \neq 1$ B. $m \neq 2$ C. $m \neq -1$ D. m = -1a. C
b. D
c. B
d. A

The correct answer is:

Ь

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Question 25
Not answered
Marked out of 0.20

Let A be the augmented matrix of a homogeneous of 3 equations in 6 variables. If rank(A) = 1, how many solutions and how many parameters does this system have?

- A. Infinitely many solutions and 3 parameters
- B. Infinitely many solutions and 2 parameters
- C. Infinitely many solutions and 5 parameters
- D. Unique solution
- _ a. C
- _ b. D
- _ c. A
- d. B

The correct answer is:

C





Find m such that the set $\{(2, m, 1), (m, 0, 0), (1, 1, m)\}$ is a basis of \mathbb{R}^3 A. $m \neq 0$ B. $m \neq \pm 1$ C. $m \neq 1$ D. $m \in R \setminus \{0, 1, -1\}$ a. B
b. C
c. A
d. D

The correct answer is:

D

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Question 29
Not answered
Marked out of 0.20

Find the absolute maximum and absolute minimum values of the function $f(x) = x^4 - 32x^2 + 2$ on [-5; 5]

Select one:

- a. absolute maximum 2, absolute minimum -254
- b. None of the others
- c. absolute maximum 2, absolute minimum -173
- od. absolute maximum 2, absolute minimum 0
- _ a. C
- b. B
- _ c. A
- d. D

The correct answer is:

Α

Marked out of 0.20	
Estimate the area of under the approximating rectangles and ri	graph of $f(x) = 18.2 x^2$ from $x = 0$ to $x = 3$, using three ight endpoints.
a. 28	
o b. 26	
oc. 40	
od. 44	
The correct answer is:	
26	
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/2022 Question 31	
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Question 31 Not answered Marked out of 0.20	
Question 31 Not answered Marked out of 0.20 Each side of square is increasin square increasing when the are	Progress Test 3: Attempt review (page 2 of 4)
Question 31 Not answered Marked out of 0.20	Progress Test 3: Attempt review (page 2 of 4)
Question 31 Not answered Marked out of 0.20 Each side of square is increasin square increasing when the are Select one:	Progress Test 3: Attempt review (page 2 of 4)
Question 31 Not answered Marked out of 0.20 Each side of square is increasin square increasing when the are Select one: a. None of the others	Progress Test 3: Attempt review (page 2 of 4)
Question 31 Not answered Marked out of 0.20 Each side of square is increasin square increasing when the are Select one: a. None of the others b. 5 c. 30	Progress Test 3: Attempt review (page 2 of 4)
Question 31 Not answered Marked out of 0.20 Each side of square is increasin square increasing when the are select one: a. None of the others b. 5 c. 30 d. 25	Progress Test 3: Attempt review (page 2 of 4)
Question 31 Not answered Marked out of 0.20 Each side of square is increasin square increasing when the are select one: a. None of the others b. 5 c. 30 d. 25 e. 15	Progress Test 3: Attempt review (page 2 of 4)
Question 31 Not answered Marked out of 0.20 Each side of square is increasin square increasing when the are select one: a. None of the others b. 5 c. 30 d. 25	Progress Test 3: Attempt review (page 2 of 4)
Question 31 Not answered Marked out of 0.20 Each side of square is increasin square increasing when the are select one: a. None of the others b. 5 c. 30 d. 25 e. 15	Progress Test 3: Attempt review (page 2 of 4)
Question 31 Not answered Marked out of 0.20 Each side of square is increasin square increasing when the are Select one: a. None of the others b. 5 c. 30 d. 25 e. 15 a. B	Progress Test 3: Attempt review (page 2 of 4)

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Question 32
Not answered
Marked out of 0.20

Find the linear approximation for $f(x)=\frac{1}{2x-1}$ at x=1Select one:

a. 2x-3b. None of the others

c. 2x+3d. -2x-3e. -2x+3a. E

b. A

c. B

d. C

e. D

The correct answer is:

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Question 33
Not answered
Marked out of 0.20

Find dy/dx by implicit differentiation if $2xy + y^3 = 5$

Select one:

- \bigcirc a. $\frac{2y}{3y^2-2x}$
- \bigcirc b. $\frac{2y}{3y^2+2x}$
- \bigcirc c. $\frac{-2y}{3y^2-2x}$
- \bigcirc d. $\frac{-2y}{3y^2+2x}$
- _ a. C
- _ b. D
- _ c. B
- d. A

The correct answer is:

D

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Question **34**Not answered
Marked out of 0.20

Find $f_{og}h$, where f(x) = 2x + 1; $g(x) = \sin(x^2)$; $h(x) = e^{-x}$ Select one:

a. $2\sin(x^2e^{-2x} + 1)$ b. $2\sin(e^{-2x} + 1)$ c. $2\sin(x^2e^{-x}) + 1$ d. $2\sin(e^{-2x}) + 1$ a. Cb. Dc. Ad. B

The correct answer is:

D

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Question **35**Not answered

Marked out of 0.20

Find the numbers at which f is discontinuous.

$$f(x) = \begin{cases} 1 + x^2 & \text{if } x \le 0\\ 2 - x & \text{if } 0 < x \le 2\\ (x - 2)^2 & \text{if } x > 2 \end{cases}$$

- a. None of these
- ob. 0
- o. 0, 2
- od. 2

The correct answer is:

0

Question 36 Not answered Marked out of 0.20

Evaluate

$$\int_{0}^{\frac{\pi}{2}} \left(1 + \sin x\right)^{3} \cos x \, dx$$

- a. 17/4
- o b. None of these
- oc. 15/4
- od. 4
- e. 13/4

The correct answer is:

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Question 37

Not answered

Marked out of 0.20

Evaluate

$$\int_{1}^{2} \frac{\cos(\pi/x)}{x^{2}} dx$$

Select one.

- $(i) -\frac{1}{\pi}$ $(ii) \frac{1}{\pi}$ $(iii) -\frac{2}{\pi}$ $(iv) \frac{2}{\pi}$
- a. None of these
- b. (iv)
- C. (ii)
- d. (iii)
- e. (i)

The correct answer is: (i)

Question	38

Not answered

Marked out of 0.20

Which one of the following vectors is a linear combination of $\mathbf{u} = (2, 1, 4)$ and $\mathbf{v} = (1, -1, 3)$?

- a. None of these
- o b. (2, 2, 3)
- o. (5, 9, 5)
- od. (1, 2, 1)
- e. (-3, 1, 0)

The correct answer is:

(1, 2, 1)

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Question 39

Not answered

Marked out of 0.20

Which of the following are subspaces of \mathbb{R}^3 ?

- (i) $\{(x, y, z) \mid 2x y + 3z = 0\}$
- (ii) $\{(x, y, z) \mid xy = 0\}$
- a. Only (i)
- b. Neither
- oc. Both
- od. Only (ii)

The correct answer is:

Only (i)



Which set is/are basis (bases) of R³?

- (i) $\{(1,0,1),(6,4,5),(-4,-4,7)\}$
- (ii) $\{(3,-1,2),(5,1,1),(1,1,1)\}$
- a. Both
- b. Neither
- oc. Only (ii)
- d. Only (i)

The correct answer is:

Both

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Question 41

Not answered

Marked out of 0.20

Which of the vectors below is a linear combination of $\mathbf{u}=(1,1,2),\,\mathbf{v}=(-2,3,1)$ and $\mathbf{w}=(2,-1,1)$?

p = (0, 1, 1)

q = (1, 1, 1)

- a. Only q
- b. Both
- oc. Neither
- d. Only p

The correct answer is: Only p

Question 42
Not answered
Marked out of 0.20

If $\mathbf{u} = (6, 0, 0, 3, 0)$ and $\mathbf{w} = (-1, 4, 2, 1, 3)$, find $\|\mathbf{u} - 3\mathbf{w}\|$ in \mathbb{R}^5 .

a) $\sqrt{271}$ b) $3\sqrt{38}$ c) $3\sqrt{39}$ d) $\sqrt{306}$ a. b)

b. d)

c. c)

d. a)

The correct answer is:

b)

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Question **43**Not answered

Marked out of 0.20

Find the dimension of the column space of $\begin{bmatrix} -1 & 7 & 0 & 3 & 1 \\ 1 & -1 & 0 & -1 & -1 \\ 0 & -3 & 0 & -1 & -1 \\ 0 & 5 & 3 & 4 & -3 \end{bmatrix}$

- a. 4
- b. None of these
- oc. 2
- od. 5
- e. 3

The correct answer is:

4

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Question 44	
Not answered	
Marked out of 0.20	

What is the dimension of the subspace spanned by $S = \{(1, 1, 1), (-1, 1, -1), (1, 1, 3), (0, 2, 1)\}$? a. 4 o b. 3 oc. 2 od. None of these e. 5

The correct answer is: 3

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Question 45 Not answered Marked out of 0.20

Find all $x \in \mathbb{R}$ such that $\{(1,1,2), (-2,x,1), (2,-1,1)\}$ is a linearly independent set. a. any number but 3 ob. any number but 0 oc. any number but 2 od. any number but 1

The correct answer is: any number but 3

Question 46

Not answered

Marked out of 0.20

Which of the following vectors belong to the column space of the matrix

$$A = \left[\begin{array}{rrr} 1 & 2 & 3 \\ 2 & 4 & 6 \\ -1 & -2 & -3 \end{array} \right]?$$

- (i) $\mathbf{u} = (-1, -2, 1)$
- (ii) $\mathbf{v} = (1, 2, 3)$
- a. Only v
- ob. Both
- oc. Only u
- d. Neither

The correct answer is:

Only u

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Question 47

Not answered

Marked out of 0.20

The characteristic polynomial of the matrix

$$\left[\begin{array}{cc}2&3\\1&1\end{array}\right]$$

is

- a. None of these
- b. (x 2)(x 1) (x 3)(x 1)
- \circ c. $x^2 3x 1$
- o e. $x^2 3x + 5$

The correct answer is: $x^2 - 3x - 1$

Question 48 Not answered Marked out of 0.20

Given $f(x) = x^2 + 1$ and h(x) = f(f(x)).

Compute h'(2).

- a. 10
- o b. 15
- oc. None of these
- od. 40
- e. 20

The correct answer is: 40

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Question 49

Not answered

Marked out of 0.20

Use the Chain Rule to find dz/dx given these functions

$$x \mapsto a = x^2 \mapsto b = a + 5 \mapsto c = \sqrt{b} \mapsto 2 = 3c$$

Select one.

$$(i)\frac{3x}{x^2+5}$$

$$(ii)\frac{6x}{\sqrt{x^2+x^2}}$$

$$(i)\frac{3x}{x^2+5}$$
 $(ii)\frac{6x}{\sqrt{x^2+5}}$ $(iii)\frac{3x}{\sqrt{x^2+5}}$

- a. (i)
- b. None of these
- o. (ii)
- d. (iii)

The correct answer is: (iii)

Question 50	
Not answered	
Marked out of 0.20	
Find the limit or say that it does not exist	
$\lim_{x \to \pi} \sin(x + \sin x)$	
a. 1b. It does not exist	
○ c1	
○ d. 0	_
The correct answer is: 0	
« X	⊳