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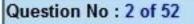
Que	stion No : 1 of 52	
Wh	ich statement about the General Least Square Method is true?	
lnsv	wer (Please select your correct option)	νι
o	Solution obtained by this method is always unique.	
С	This is a numerical method for the solution of System of Linear Equations.	
c	This method find an x that makes Ax as close as possible to the b.	
0	This method gives us exact solution of the system.	



uAnswers.com

correct answer solved by Hadi Email : usmanraj20@gmail.com Cell : 03228043306





Let $v = (1, -2, 2, 0)$. The unit vector in the same direction as $v = (1, -2, 2, 0)$.	1S
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Answer (Please select your correct option)

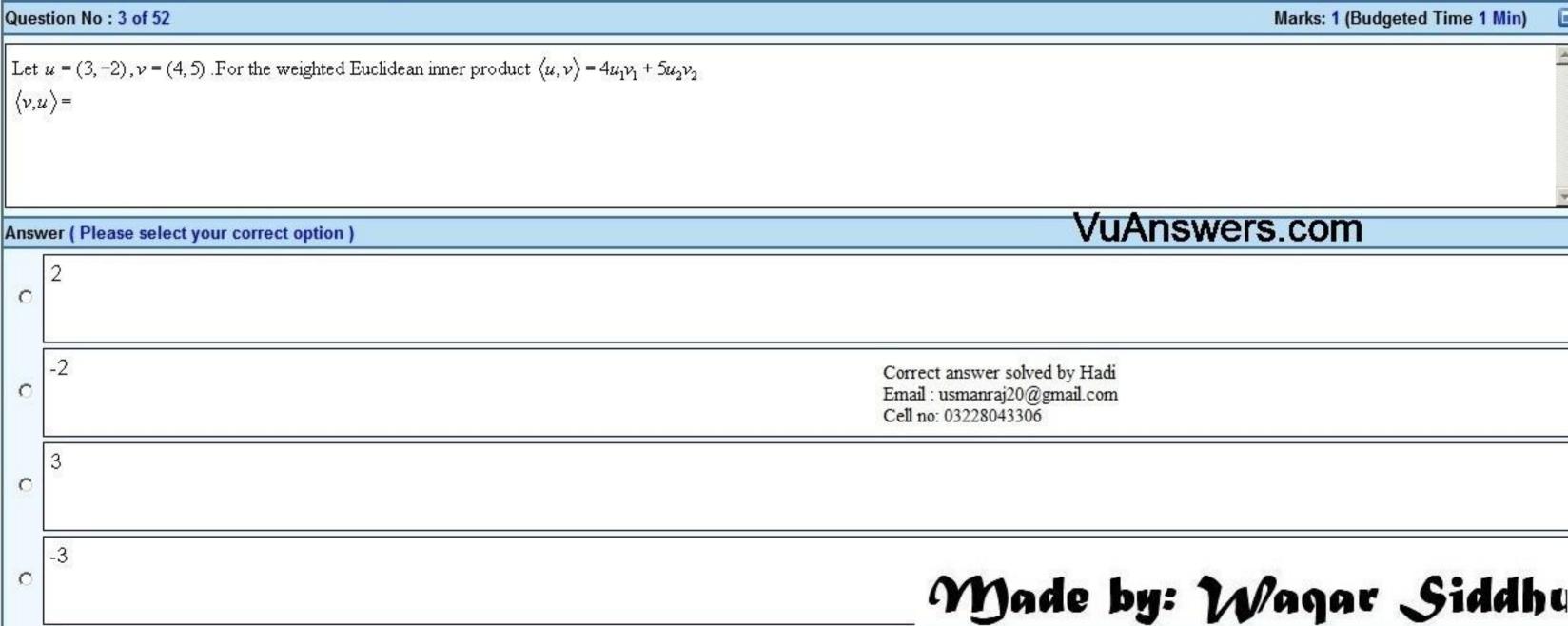
C	$\left(\frac{1}{3}, \frac{-2}{3}, \frac{2}{3}, \frac{1}{3}\right)$	Made b
o	$\left(\frac{-1}{3}, \frac{2}{3}, \frac{-2}{3}, 0\right)$	
c	$\left(\frac{1}{3}, \frac{-2}{3}, \frac{2}{3}, 0\right)$	correct
С	$\left(\frac{1}{3},\frac{2}{3},\frac{2}{3},0\right)$	

Marks: 1 (Budgeted Time 1 Min)



F







Question No : 4 of 52

Let v = (0, 2, 2, 1). The unit vector in the same direction as v is

Answer (Please select your correct option)

C	$\left(0, \frac{-2}{3}, \frac{2}{3}, \frac{1}{3}\right)$	Made b
c	$\left(0,\frac{2}{3},\frac{2}{3},\frac{1}{3}\right)$	Correct answe Email : usman Cell no: 03228
o	$\left(0, \frac{-2}{3}, \frac{2}{3}, \frac{-1}{3}\right)$	
o	$\left(0,\frac{2}{3},\frac{2}{3},\frac{-1}{3}\right)$	

Marks: 1 (Budgeted Time 1 Min)



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wer solved by Hadi anraj20@gmail.com 28043306



Que	tion No : 5 of 52		
Let	$ ^{3}$ have the Euclidean inner product. Then $u = (2,1,3), v = (1,7,k)$ are orthogonal for		
Ansv	wer (Please select your correct option)	Vu	
c	k = 9		
o	k = -3		
0	k = -9		
o	k = 3	Made I	



Б



Ques	uestion No : 6 of 52		
Let	t A be $n \times n$ matrix whose entries are real. If λ is an eigenvalue of A with x a corresponding eigenvector in \pounds^{*} , then		
\nsv	wer (Please select your correct option)	Vu	
o	$A\overline{x} = \lambda \overline{x}$		
o	$\overline{A\overline{x}} = \overline{\lambda}\overline{x}$		
c	$A\overline{\mathbf{x}} = \overline{\lambda}x$		
c	$A\overline{x} = \lambda^{-1}\overline{x}$	Made	



Б



Que	stion No : 7 of 52	
Sup	pose that $\mathbf{A} = \begin{bmatrix} 1.25 &75 \\75 & 1.25 \end{bmatrix}$ has eigenvalues 2 and 0.5. Then origin is a	
Ansv	wer (Please select your correct option)	Vu/
c	Saddle point correct	correct answer solved by H Email : usmanraj20@gmai Cell : 03228043306
c	Repellor	
с	Attractor	Made b



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r Hadi ail.com



Que	stion No : 8 of 52		
Sup	pose that $A = \begin{bmatrix} 0.5 & 0.6 \\ -0.3 & 1.4 \end{bmatrix}$ has eigenvalues 0.8 and 1.1. Then origin is a		
Ansv	ver (Please select your correct option)		Vu,
	Saddle point		
С		correct	
	Repellor		
0			
C	Attractor		
U			Made b



Б



ues	stion No : 9 of 52		
ΕA	is an $m \times n$ matrix with linearly independent column v A = QR	ectors, then A can be factored as	
Whe	ere Q is an $m imes n$ matrix with orthonormal column vect	fors, and R is an $n imes n$	
nsw	ver (Please select your correct option)		Vu
c	Upper triangular matrix	correct	correct answer so Email : usmanraj. Cell : 0322804330
c	Invertible matrix		
0	Invertible lower triangular matrix		
0	Invertible upper triangular matrix		Made I

G

Marks: 1 (Budgeted Time 1 Min)



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Question No : 10 of 52

The matrix equation $A^T A \hat{x} = A^T b$ represents a system of linear equations commonly referred to as the

Answer (Please select your correct option)

0	normal equations for b	Made b
0	normal equations for A	
c	normal equations for \hat{x}	Correct answer Email : usmanr Cell no: 032280
0	normal equations for x	

Marks: 1 (Budgeted Time 1 Min)





er solved by Hadi raj20@gmail.com 8043306



Que	stion No : 11 of 52	
By	y the Best Approximation Theorem, the distance from y to W is $\ y - \hat{y}\ $, where $\hat{y} =$	
Ansv	wer (Please select your correct option)	Vu/
с	proj _w ŷ	
c	projw y correct	correct o Email : Cell : 03
o	projy w	
		Made b



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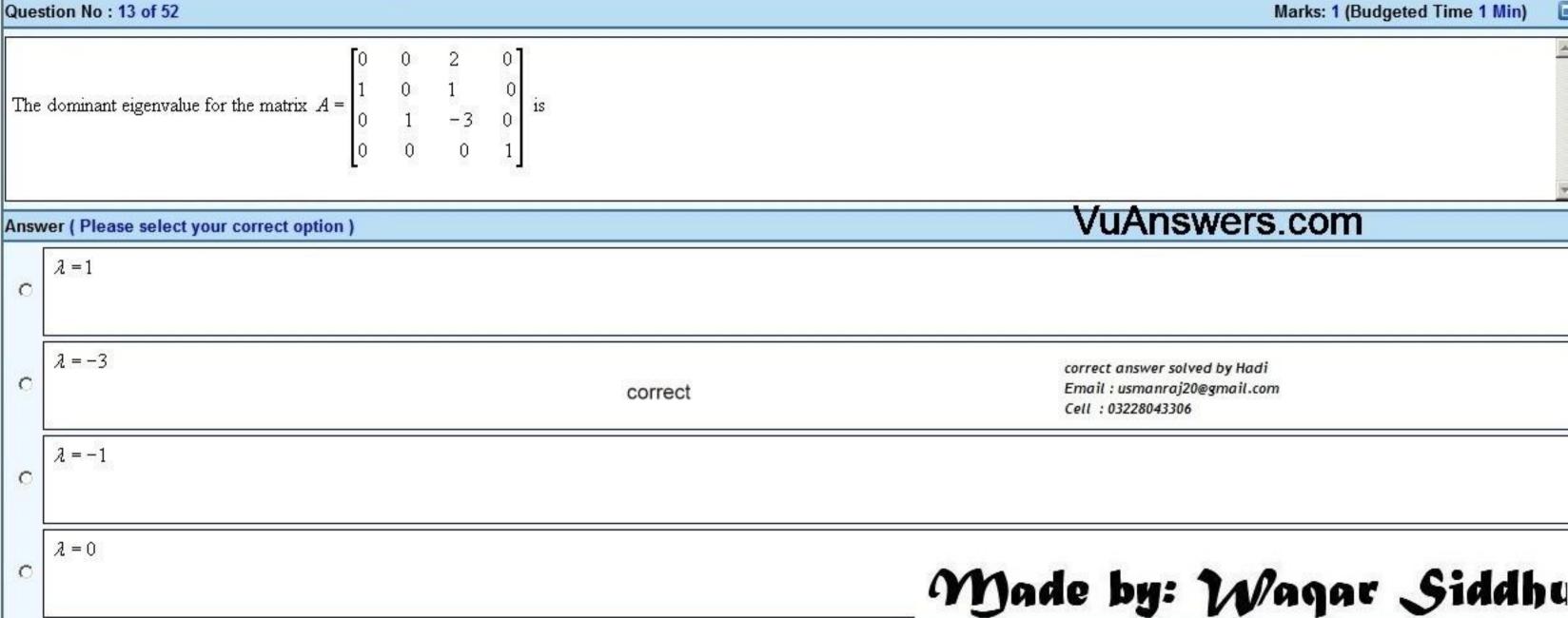


Que	stion No : 12 of 52	
21 -	$ v + w \leq u + v + w $ for all vectors $u, v and w$ in an inner product space.	
Ansv	ver (Please select your correct option)	Vu
C	True correct	
0	False	Made I



E







Que	stion No : 14 of 52	
As	equare matrix A is invertible if and only if x = 0 is not an eigen value of A.	
Ans	wer (Please select your correct option)	Vu,
	True	
0	correct	
	False	
0		Made k



E



Que	tion No : 15 of 52		
A s	quare matrix with orthogonal columns	matrix. (Click on most appropriate)	
Ansv	ver (Please select your correct option)		Vu
c	is an orthogonal		Correct answer sol Email : usmanraj20 Cell no: 032280433
c	may be an orthogonal		
с	may not be an orthogonal		
c	is not an orthogonal		Made I



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Que	estion No : 16 of 52	
Ift	wo rows are orthogonal, they are	
Ansv	wer (Please select your correct option)	Vu
0	linearly independent	Correct answer solved by Hadi Email : usmanraj20@gmail.com Cell no: 03228043306
	linearly dependent	
c		
		Made I





Que	stion No : 17 of 52	
lfx	: is orthogonal to both u and v , then x must be to $u + v$.	
Ansv	wer (Please select your correct option)	Vu
0	orthogonal	
с	orthonormal	Correct answer solve Email : usmanraj20@ Cell no: 03228043306
с	perpendicular	
c	parallel	Made k





ed by Hadi Øgmail.com 6

check



Question No : 18 of	52	
The given system	2x + 3y = 3 6x + 9y = 7 has	
	lect your correct option)	Vu/
C Unique solutio		
C Infinitely many	solutions	Correct answer s
C None of these		Email : usmanraj2 Cell no: 03228043
с		Made b



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aj20@gmail.com 43306



2	of 52	9	1	;	No	on	uesti	2
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Wł	the statement about the matrix $\begin{bmatrix} 1 & 0 & 0 & 0 \\ 7 & 2 & 0 & 0 \\ 9 & 1 & 2 & 0 \\ 5 & 4 & 2 & -1 \end{bmatrix}$ is false?	
Ansv	wer (Please select your correct option)	Vu
С	Eigenvalue 2 has Algebraic multiplicity 1	
0	Eigenvalue of the matrix are 1, 2 and -1.	
0	Characteristic polynomial of the matrix is $(1 - \lambda)(2 - \lambda)^2(-1 - \lambda)$.	
С	Eigenvalue -1 has multiplicity 1.	Made k



E



Que	stion No : 20 of 52		
If A	$A = \begin{pmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \end{pmatrix}$ is diagonalizable then A has 2 distinct eigenvalues.		
Ansv	wer (Please select your correct option)		Vu
	True		
0		0 1 1 0	
	False		
o			
		(Made I



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Que	stion No : 21 of 52	
A is	diagonalizable if A = PDP ⁻¹ Where	
Ansv	ver (Please select your correct option)	νι
0	D is any matrix and P is an invertible matrix	
0	D is a diagonal matrix and P is any matrix	
0	D is a diagonal matrix and P is invertible matrix	
c	D is a invertible matrix and P is any matrix	Mada



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Que	stion No : 22 of 52	
Wh	ich statement is FALSE.	
Ansv	ver (Please select your correct option)	Vu
c	If $Ax = \lambda x$ for some real number λ then λ is known as eigenvalue of t he matrix A.	
o	The eigenvalues of any matrix are on its main diagonal.	
0	In order to find the eigenvalues we solve the equation $ A - \lambda = 0$	
c	An eigenspaces of A is the Null space of some matrix.	Made t





Question No : 34 of 52

If a set
$$S = \{1, x, x^2\}$$
 is a basis for p_2 and $[\frac{1}{p}]_S = (2, 4, 7)$, then which of the following is the most appropriate option?
Answer (Please select your correct option) VUA
C $p_2 = 2 - 4x + 7x^2$
C $p_2 = 2 - 4x - 7x^2$
C $p_2 = 2 - 4x - 7x^2$
C $p_2 = 2 - 4x - 7x^2$
C $p_2 = 4x - 7x^2$
C $p_2 = 4x - 7x^2$

Marks: 1 (Budgeted Time 1 Min)



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rrect answer solved by Hadi nail : usmanraj20@gmail.com 11 no: 03228043306

y: Waqar Siddhu

Question No : 35 of 52 Which of the following is the set of standard basis for R^3 ? Answer (Please select your correct option) $\{(1,1,0),(0,1,0),(1,0,1)\}$ $\{(1,0,0),(0,1,0),(0,0,1)\}$ $\{(1,0,0),(1,1,0),(0,0,1)\}$ $\{(1,0,0),(0,1,0),(1,1,1)\}$

Marks: 1 (Budgeted Time 1 Min)



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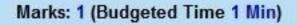
Correct answer solved by Hadi Email : usmanraj20@gmail.com Cell no: 03228043306



Question No : 36 of 52

Consider the bases for
$$R^2$$
 given by $B = \left\{ \begin{array}{c} 1 \\ b_1 \end{array}, \begin{array}{c} 1 \\ b_2 \end{array} \right\}$ and $C = \left\{ \begin{array}{c} r \\ c_1 \end{array}, \begin{array}{c} r \\ c_2 \end{array} \right\}$; where $\begin{array}{c} r \\ b_1 \end{array} = \begin{bmatrix} -1 \\ 0 \end{bmatrix}$, $\begin{array}{c} r \\ b_2 \end{array} = \begin{bmatrix} -1 \\ 1 \end{bmatrix}$, $\begin{array}{c} r \\ c_1 = \begin{bmatrix} -5 \\ 3 \end{bmatrix}$, $\begin{array}{c} r \\ c_2 \end{array} = \begin{bmatrix} -2 \\ 1 \end{bmatrix}$, also assume that $P_{B \leftarrow C} = \begin{bmatrix} -2 & -1 \\ 3 & 1 \end{bmatrix}$; then which of the following is the change-of-coordinates matrix from B to C ?

VuAnswers.com Answer (Please select your correct option) $C \quad P_{C \leftarrow B} = \begin{bmatrix} 1 & 1 \\ -3 & -2 \end{bmatrix}$ $C \quad P_{C \leftarrow B} = \begin{bmatrix} 1 & -1 \\ 0 & 1 \end{bmatrix}$ $C = \begin{bmatrix} -5 & -2 \\ 3 & 1 \end{bmatrix}$ Cell no: 03228043306 $C = \begin{bmatrix} -8 & -3 \\ 3 & 1 \end{bmatrix}$ Made by: Waqar Siddhu

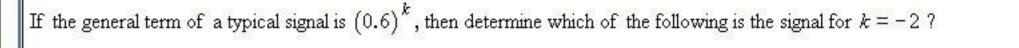


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Correct answer solved by Hadi Email : usmanraj20@gmail.com



Question No : 37 of 52



Answer (Please select your correct option)

0	$(0.6)^{-2} = 0$	
с	$(0.6)^{-2} = 0.6$	
c	$(0.6)^{-2} = (0.6)^2$	
1.287	$(0.6)^{-2} = 1/(0.6)^2$	Correct answer solved by Hadi
		Email : usmanraj20@morende b Cell no: 0322804330

Marks: 1 (Budgeted Time 1 Min)





Question	No:	38	of 52

If the Casorati matrix is not invertible , then which of the following is the most appropriate option regarding the associated signals ?		priate option regarding the associated signals ?
Ansv	wer (Please select your correct option)	Vu/
0	The signals are linearly independent .	Correct ans Email : usm Cell no: 032
o	The signals are linearly dependent .	
0	The signals may or may not dependent .	
0	The signals may or may not independent .	Mode h



Answers.com

swer solved by Hadi anraj20@gmail.com 228043306



Question No : 39 of 52

If
$$\{y_k\} = \{\dots, 1, 0.7, 0, -0.7, -1, -0.7, 0, 0.7, 1, 0.7, 0, \dots\}$$
 and $0.35 y_{k+2} + 0.6 y_{k+1} + 0.42 y_k = z_k$;

$$\uparrow$$
 $k = 0$

 then which of the following is the value of z_0 ?

 Nower (Please select your correct option)

 C

 0.840

 C

 -0.770

 Correct answer = Email: usmarraj

 Cell no: 0322804:

 C

 -1.139

Marks: 1 (Budgeted Time 1 Min)





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Question No : 40 of 52

Suppose that
$$B = \{b_1, b_2\}$$
 is a basis for V and $C = \{c_1, c_2, c_3\}$ is a basis for W . Let $T: V \to W$ be a linear transformation with the proper $T(b_2) = 4c_1 - c_2 + 7c_3$. Determine the value of $[T(b_2)]_C$?

Answer (Please select your correct option)		wer (Please select your correct option)	VuA
	c	$\begin{bmatrix} 5\\-2\\ 2 \end{bmatrix}$	
	o	$\begin{bmatrix} 7\\ -1 \end{bmatrix}$	
	0	$\begin{bmatrix} 4 \\ -1 \\ -2 \end{bmatrix}$	
	o	$\begin{bmatrix} 3 \\ -2 \\ - \end{bmatrix}$	Made b

Marks: 1 (Budgeted Time 1 Min)

E

erty that $T(b_1) = 5c_1 - 2c_2 + 3c_3$ and



Question No : 41 of 52

Determine whether the set of vectors are orthogonal or not.

 $\begin{bmatrix} 5 \\ -4 \\ 0 \\ 2 \end{bmatrix}, \begin{bmatrix} -4 \\ -4 \\ -3 \\ -3 \end{bmatrix}, \begin{bmatrix} 3 \\ 3 \\ 5 \\ 1 \end{bmatrix}$

Answer (Please click here to Add Answer)

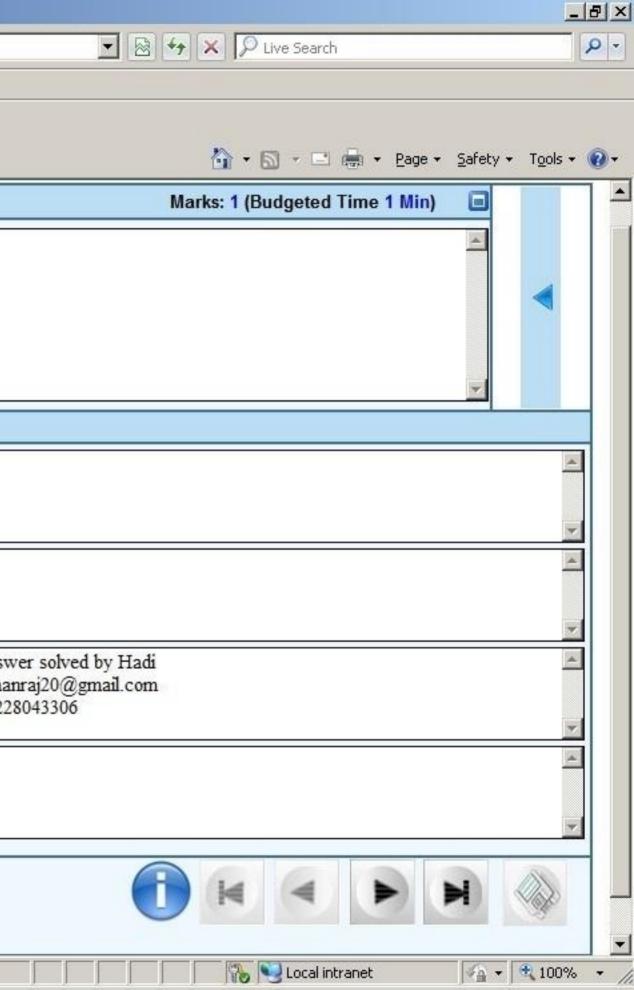
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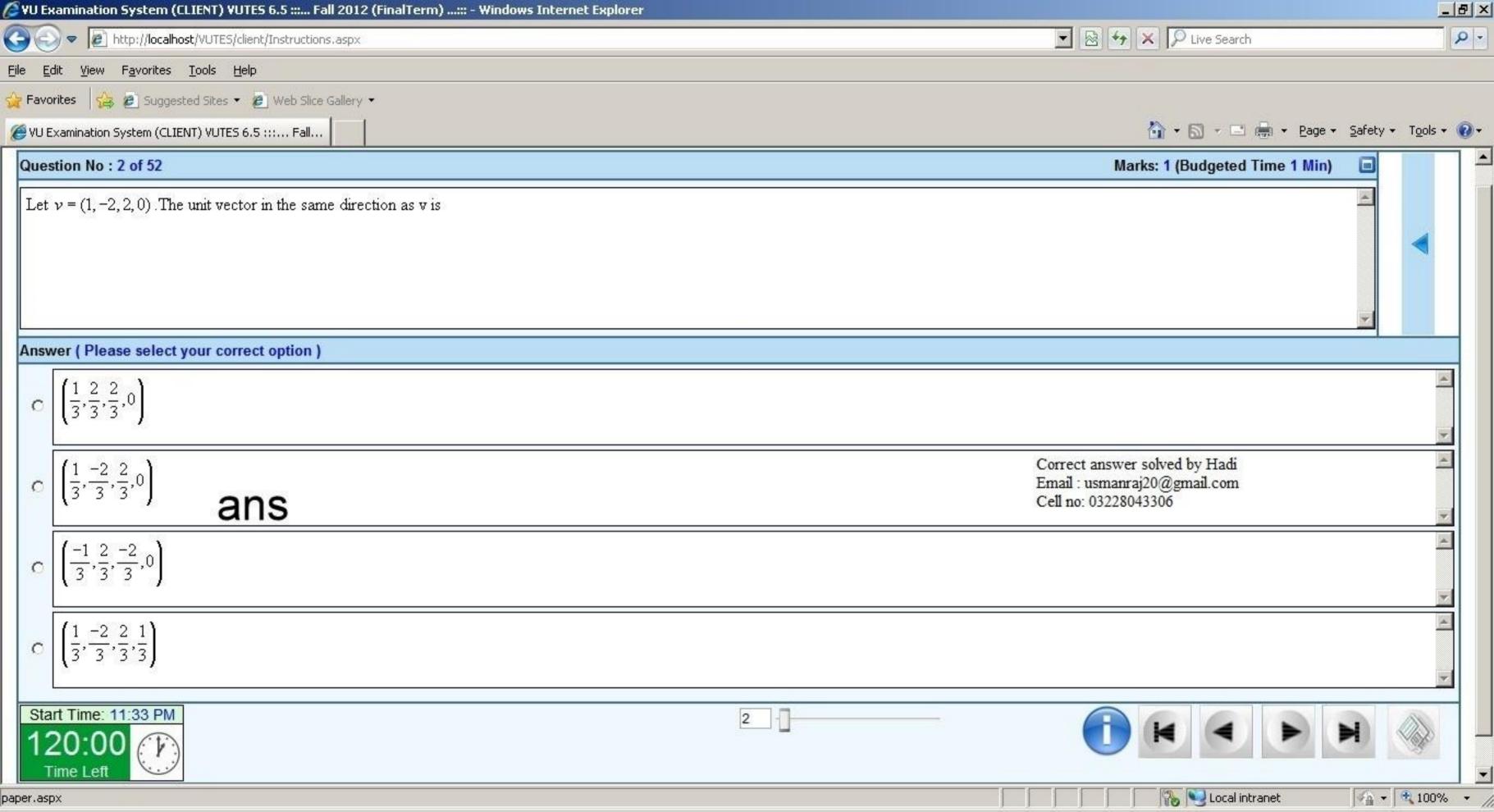


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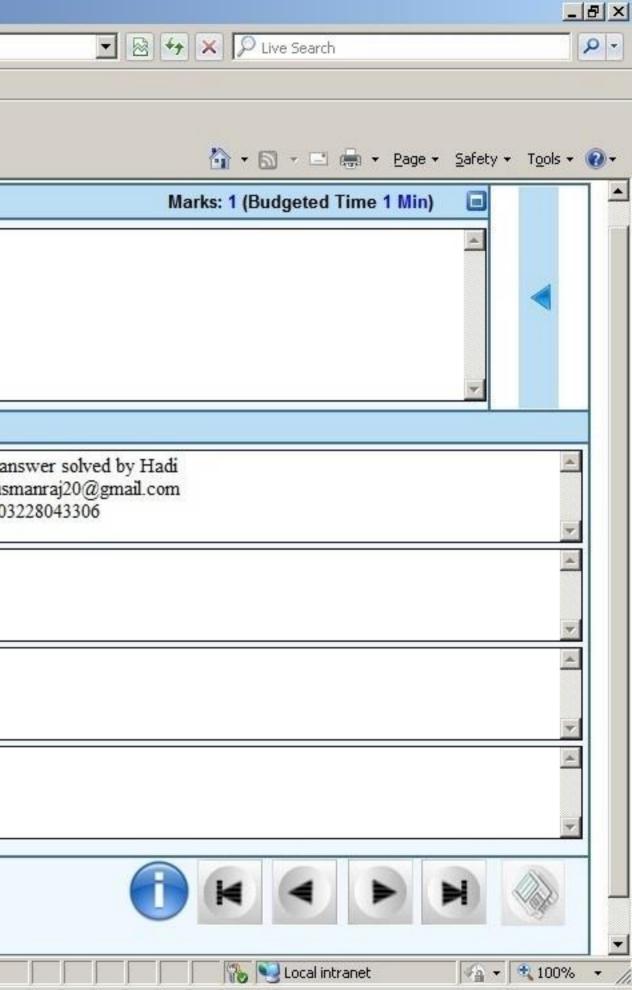


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Que	estion No : 1 of 52	
W	hich statement about the General Least Square Method is true?	
Ans	swer (Please select your correct option)	
274.6	Solution obtained by this method is always unique.	
0		
C	This is a numerical method for the solution of System of Linear Equations.	
	This method find an x that makes Ax as close as possible to the b.	 Correct answ
0		Email : usma Cell no: 0322
c	This method gives us exact solution of the system.	
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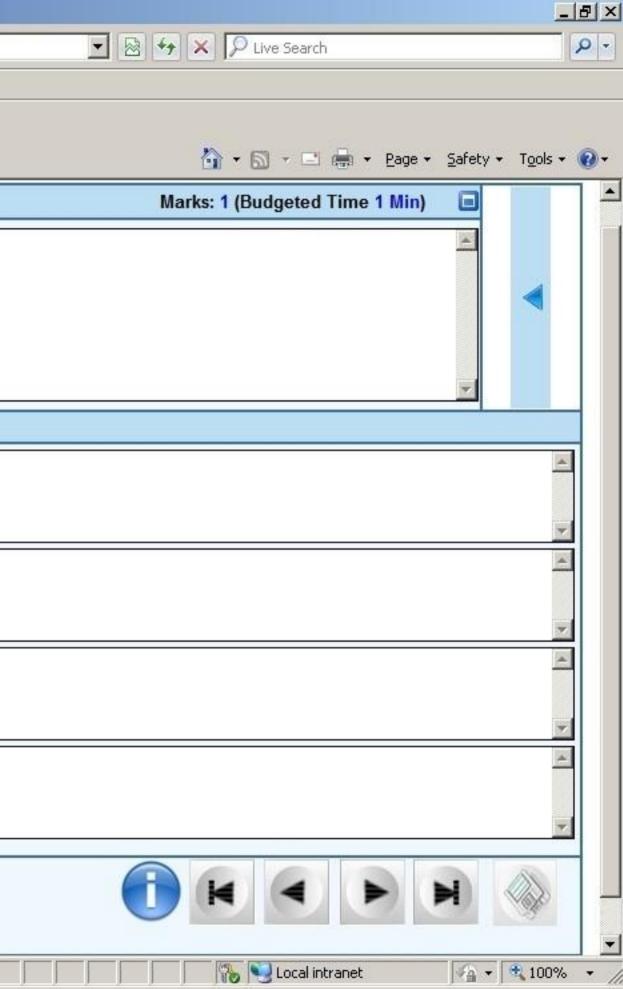




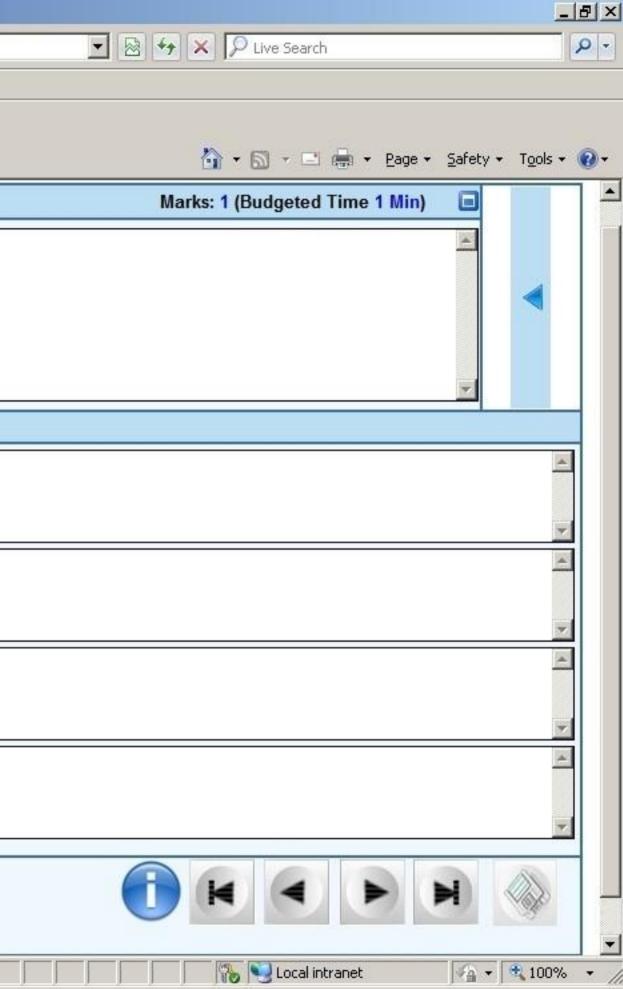
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Que	estion No : 3 of 52		
Let	t $v = (1, -2, 2, 0)$. The unit vector in the same direction as v has magnitude		
Ans	wer (Please select your correct option)		
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	ans		
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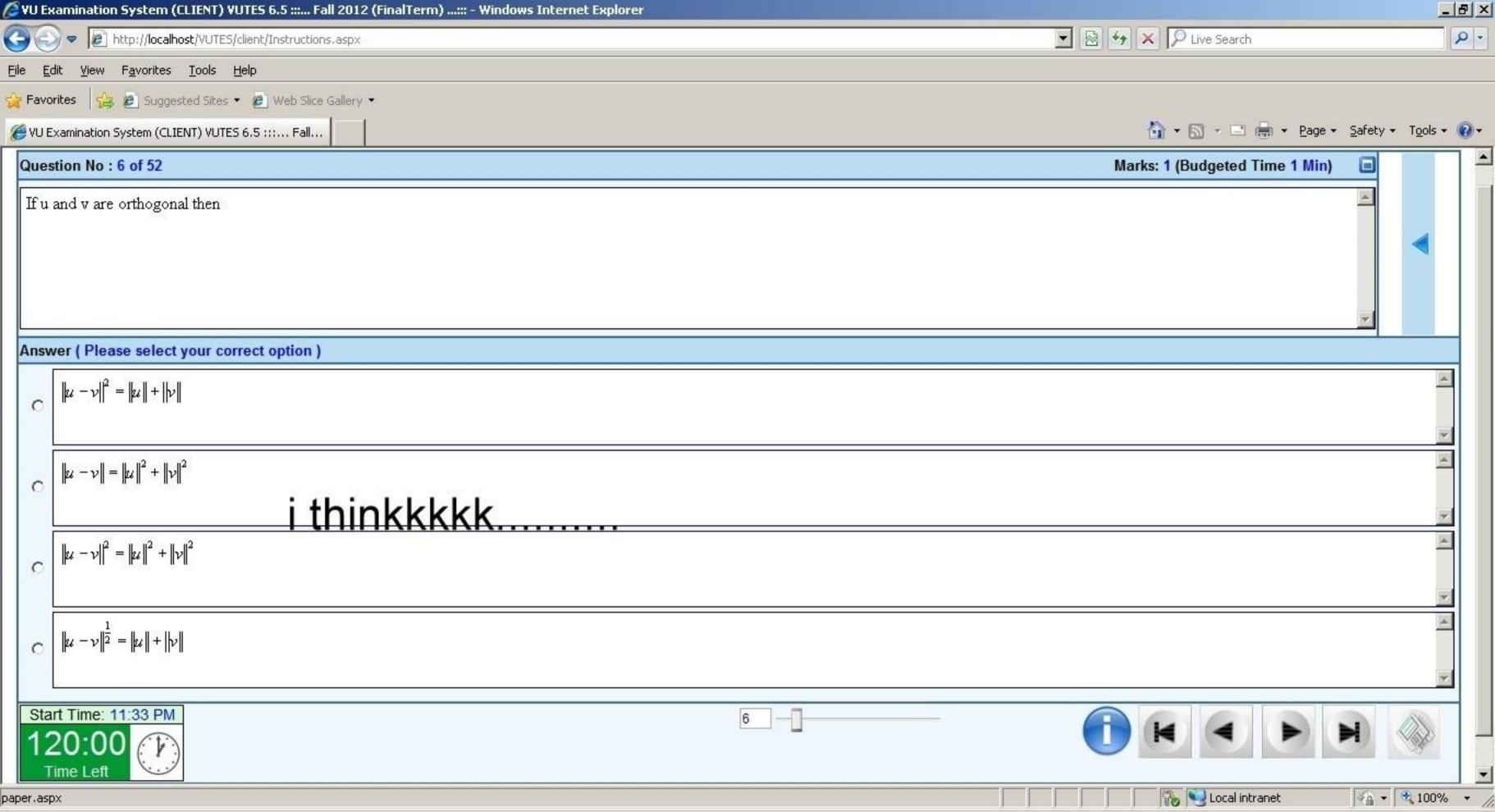


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Question No : 4 of 52			
Let i^{3} have the Euclidean inner product. Then $u = (2,1,3), v = (1,7,k)$ are orthogonal for			
out of			
Answer (Please select your correct option)			
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c = -3			
k = -9			
k = 3			
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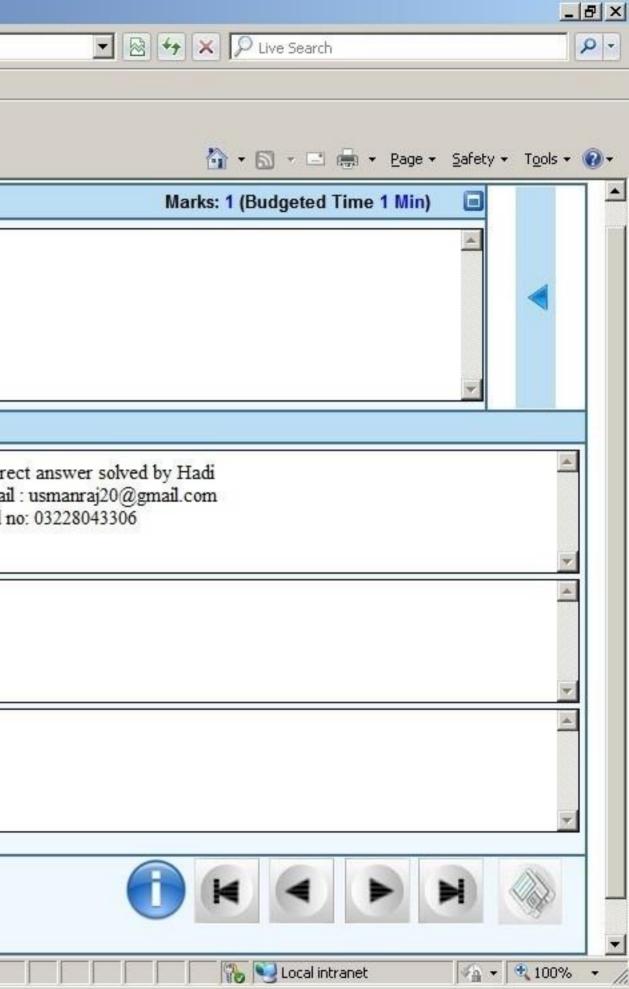


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Question No : 5 of 52			
Let \int_{1}^{3} have the Euclidean inner product. Then $u = (k, -3, 1), v = (-3, 5, 6)$ are orthogonal for			
out of			
Answer (Please select your correct option)			
k = 2			
0			
k = -2			
k = 3			
0			
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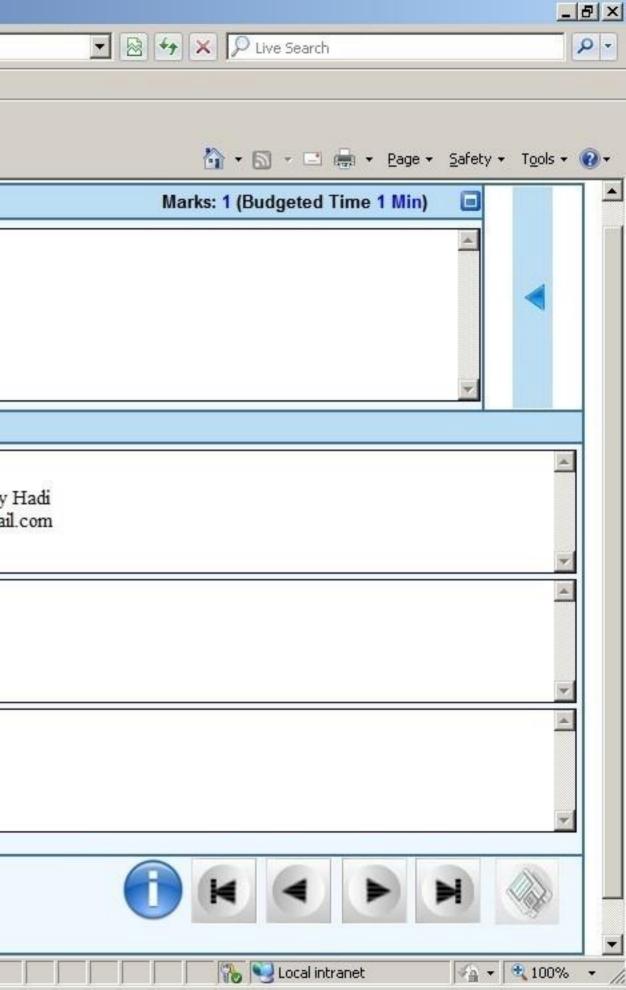




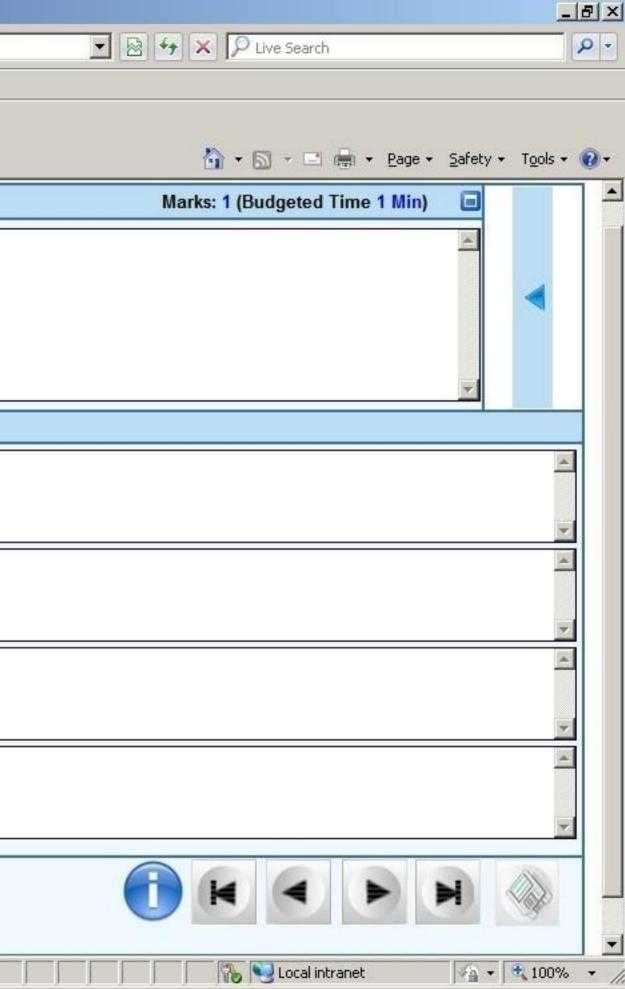
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Que	estion No : 7 of 52	
Suj	appose that $A = \begin{bmatrix} 0.5 & 0.6 \\ -0.3 & 1.4 \end{bmatrix}$ has eigenvalues 0.8 and 1.1. Then origin is a	
Ans	swer (Please select your correct option)	
o	Saddle point	Corre Emai Cell 1
c	Repellor	
c	Attractor	
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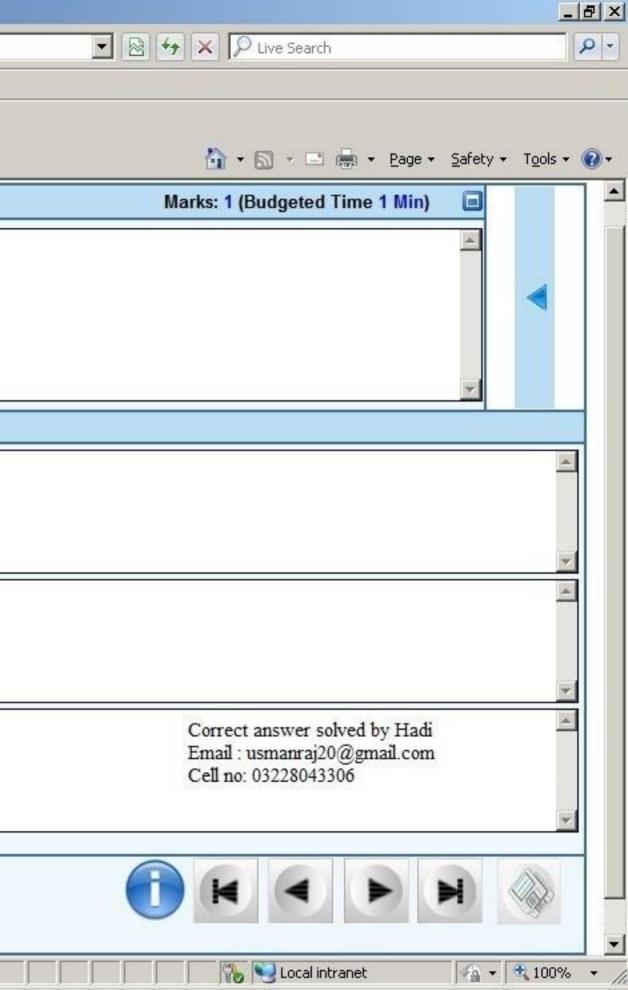
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appose that $\mathbf{A} = \begin{bmatrix} 0.5 & 0.6 \\ -0.3 & 1.4 \end{bmatrix}$ has eigenvalues 0.8 and 1.1. Then origin is a	
swer (Please select your correct option)	
Saddle point	Correct answer solved by Email : usmanraj20@gma Cell no: 03228043306
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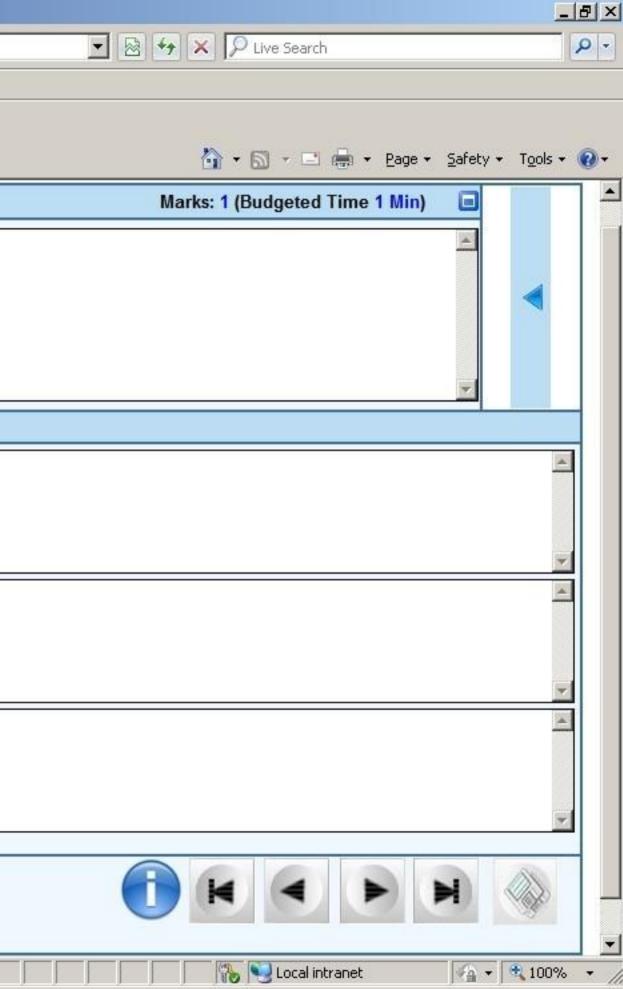
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Question No : 8 of 52			
If A is an $m \times n$ matrix with linearly independent column vectors, then A can be factored as $A = QR$ WP			
Where Q is an $m \times n$ matrix with orthonormal column vectors, and R is an $n \times n$			
Answer (Please select your correct option)			
Upper triangular matrix			
ans			
Invertible matrix			
0			
Invertible lower triangular matrix			
Invertible upper triangular matrix			
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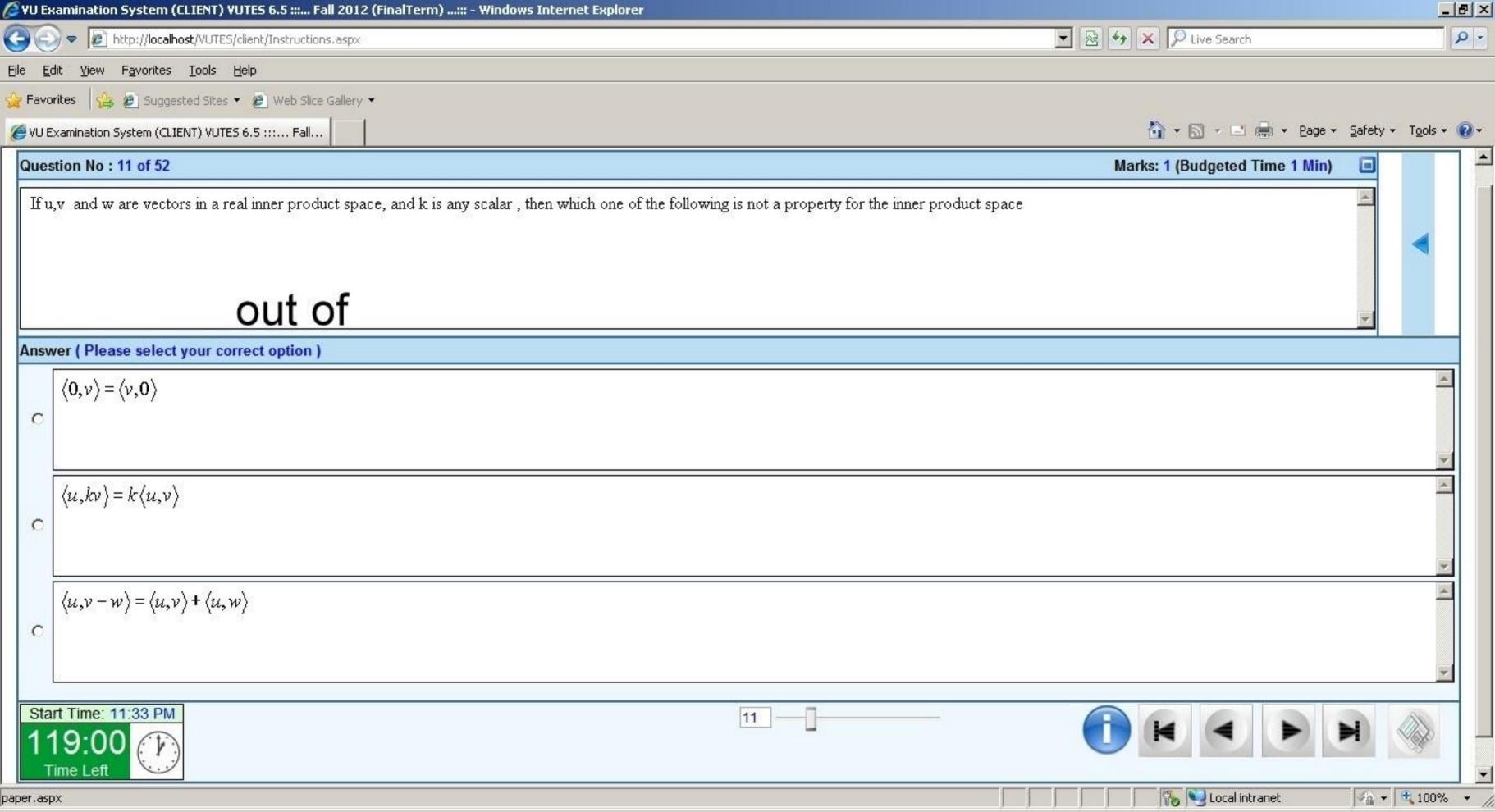


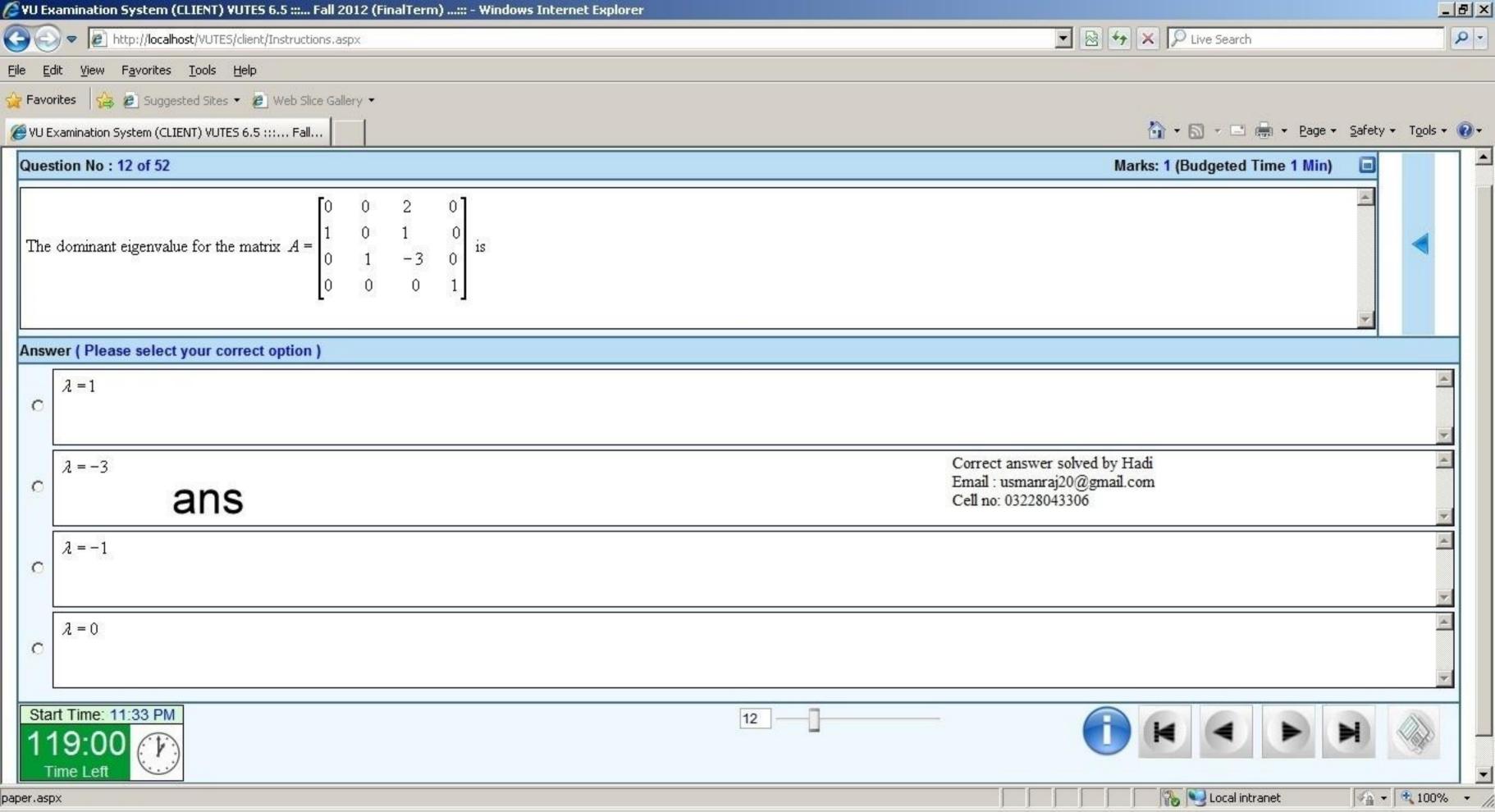
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Question No : 9 of 52			
The QR-Decomposition of a 3×3 matrix A gives			
Answer (Please select your correct option)			
matrix Q of order 3×1 and R of order 3×1			
0			
matrix Q of order 3×3 and R of order 3×1			
C			
matrix Q of order 3×3 and R of order 3×3			
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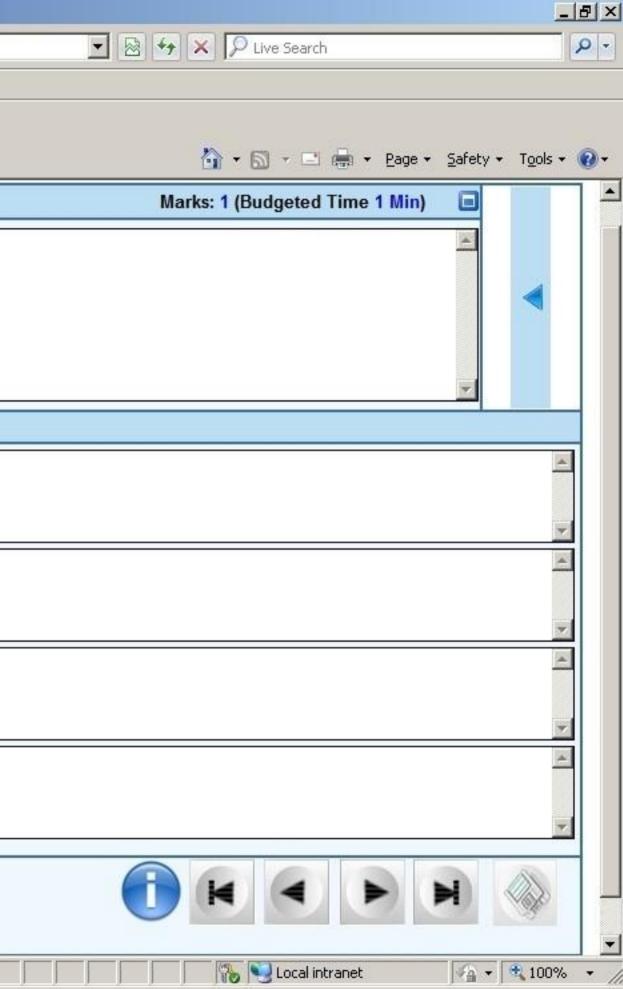
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Question	No : 10 of 52	
The QR-	-Decomposition of a 5×2 matrix A gives	
Answer (Please select your correct option)	
C	trix Q of order 5×1 and R of order 5×1	
C	trix Q of order 5×2 and R of order 2×5	
C	trix Q of order 5×2 and R of order 2×2	
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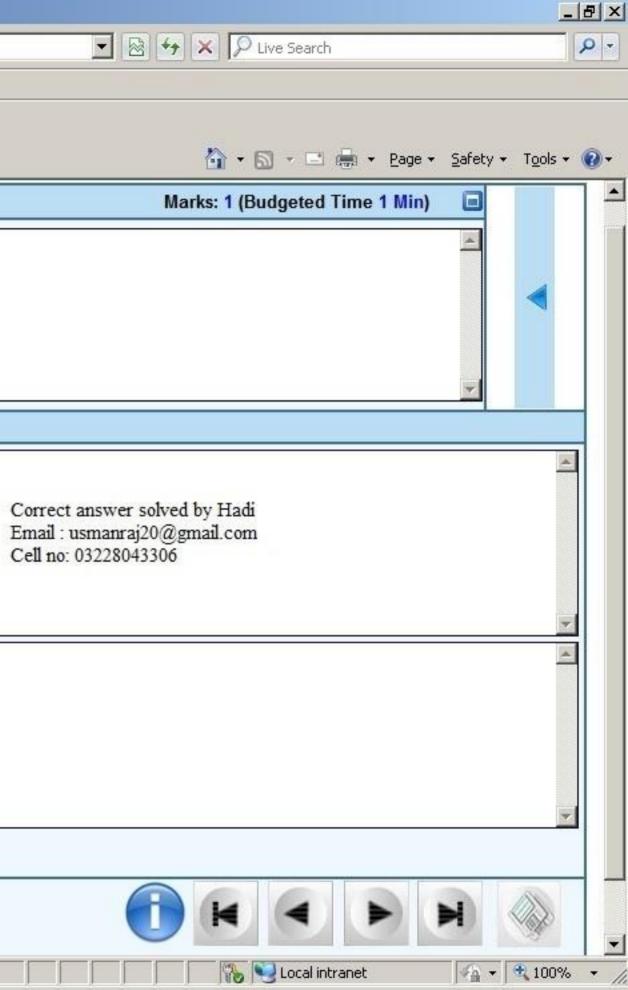




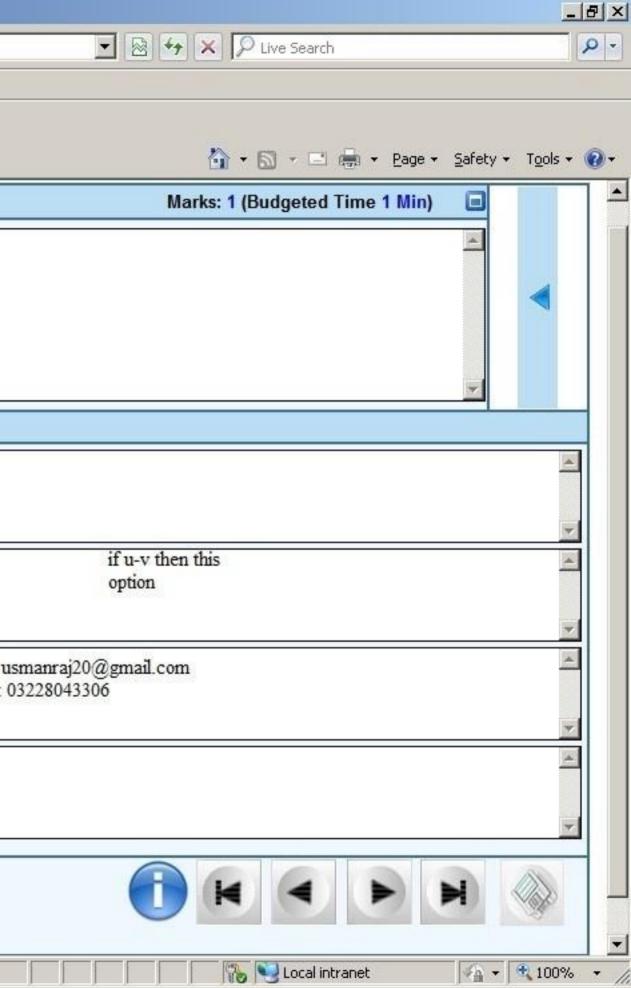
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Question No : 13 of 52			
of a matrix is the sum of main diagonal elements of that matrix.			
Answer (Please select your correct option)			
Trace			
0			
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ans			
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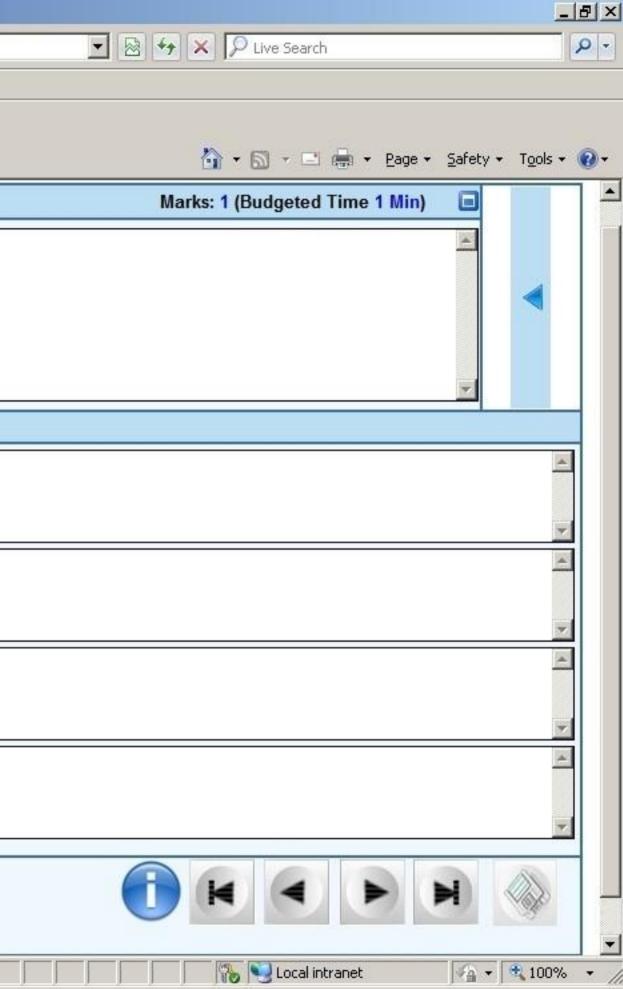
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Qu	Jest	stion No : 14 of 52	
If	as	square matrix has orthonormal columns, then it also has	
An	isw	ver(Please select your correct option)	
		orthonormal rows	
4	9	ans	
		uno	
		orthonormal diagonal	
4	9		
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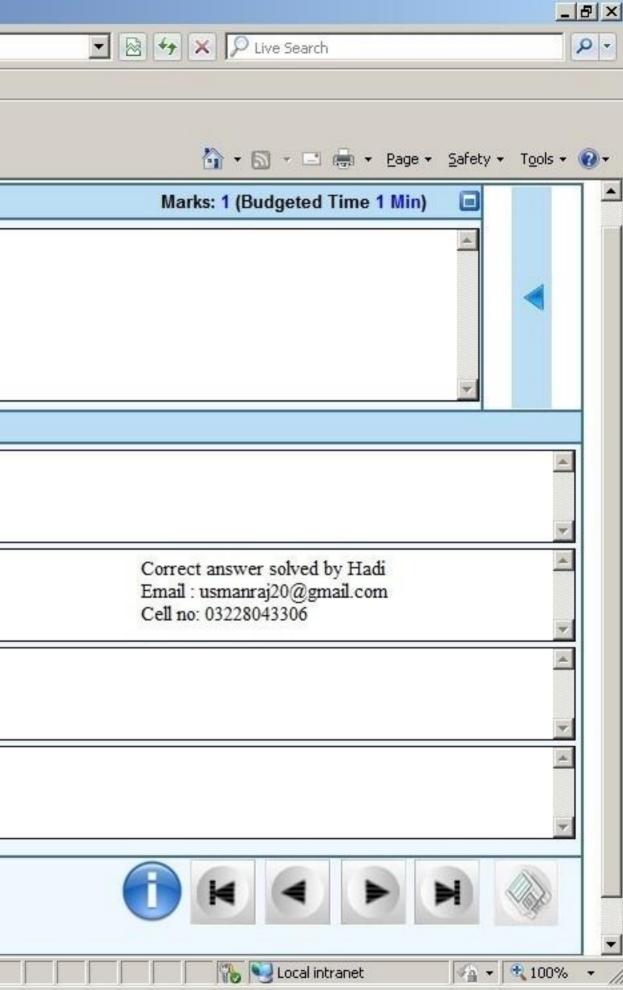
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Question No : 15 of 52		
If x is orthogonal to both u and v , then x must be to $u - v$.		
Answer (Please select your correct option)		
orthogonal		
orthonormal		
c perpendicular ans		Email : u Cell no:
c parallel		
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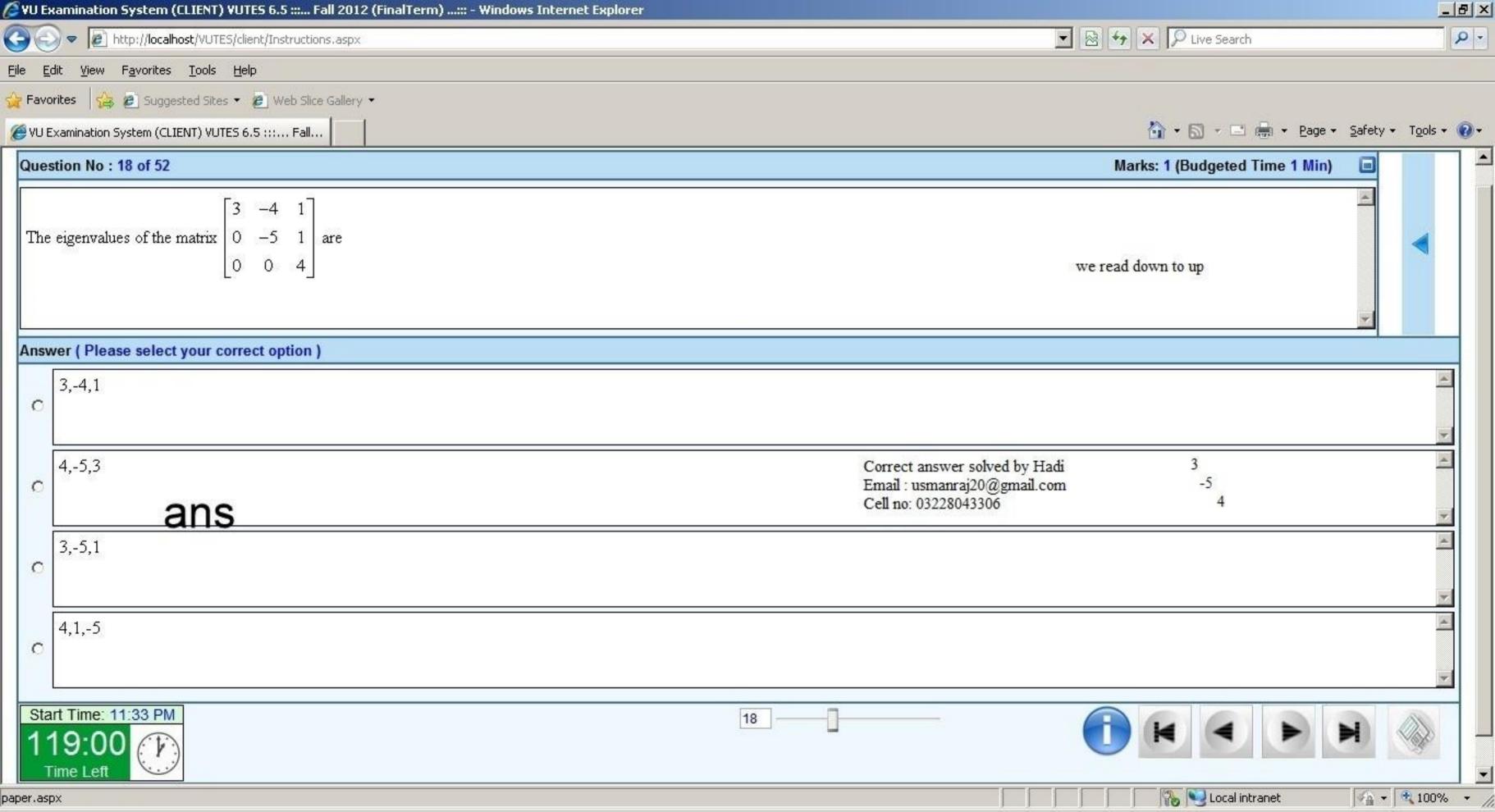


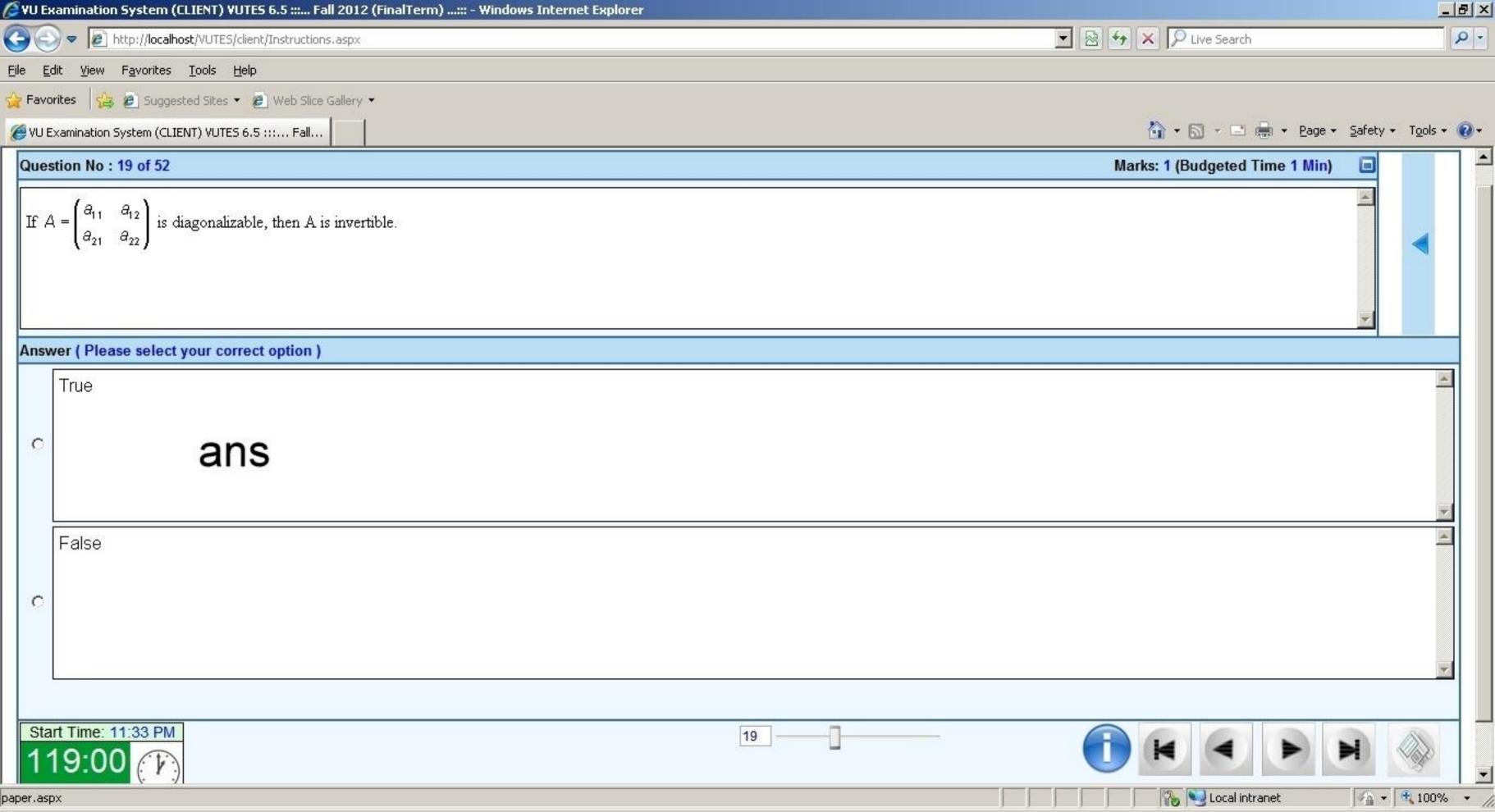
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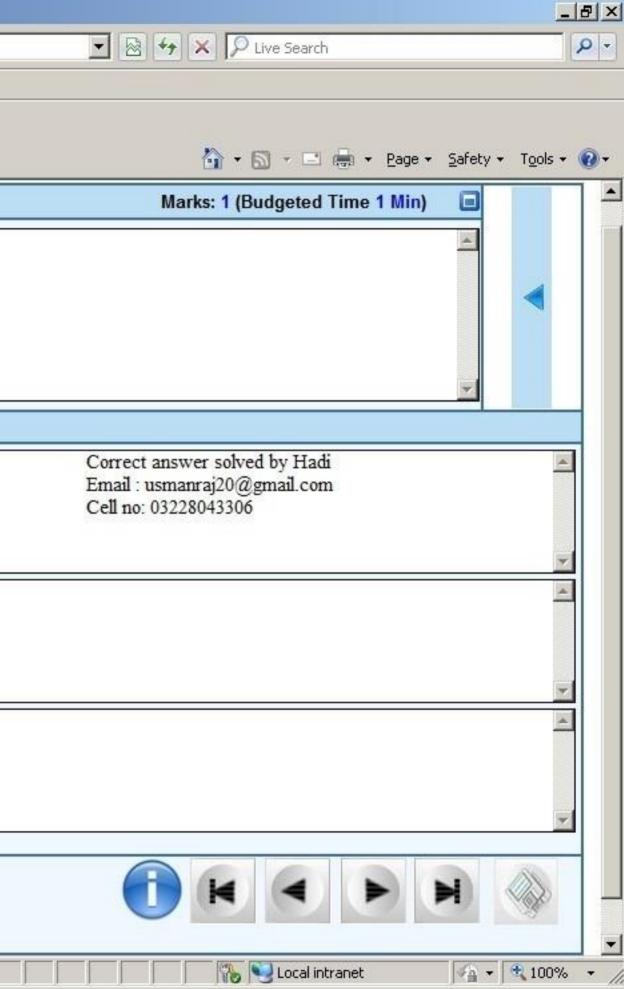
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Question No : 17 of 52			
If 5 is an eigenvalue of A and x is a corresponding eigenvector, then the eigenvalue of A^2 is			
Answer (Please select your correct option)			
5 C			
25			
0	A2= 5(2)=25		
ans			
0 10			
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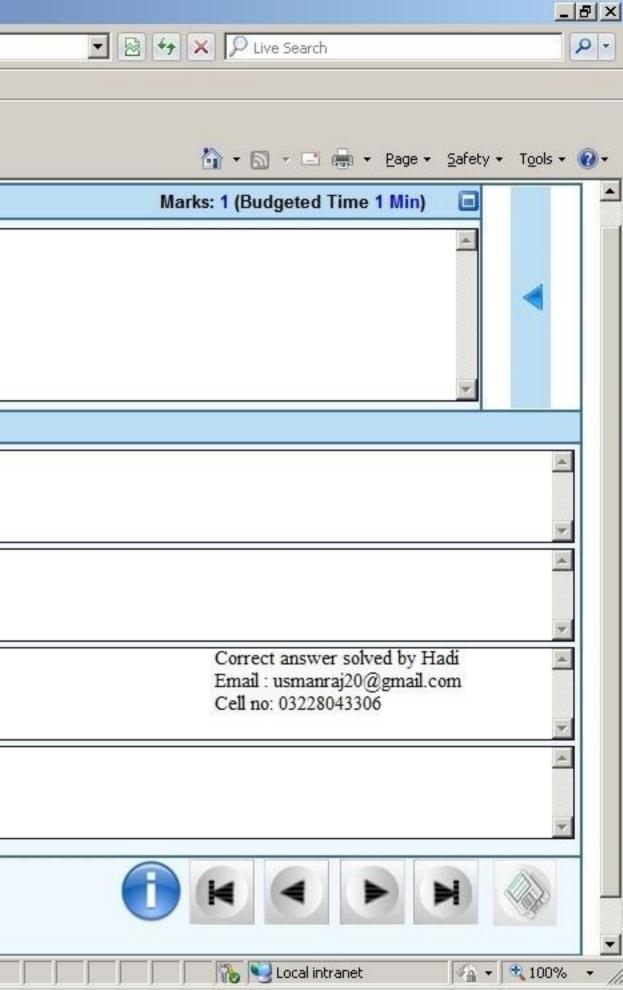




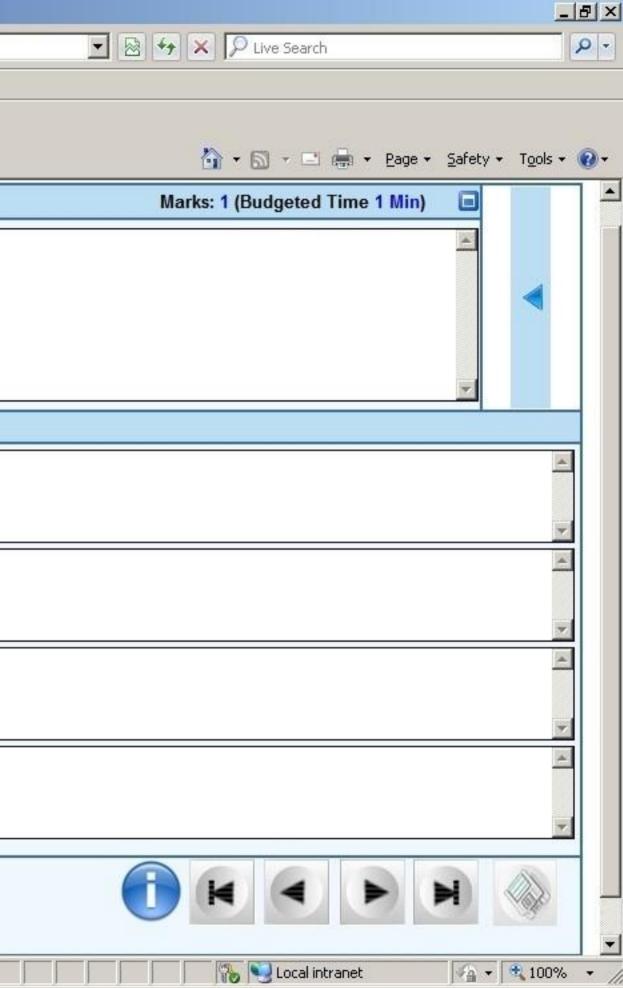
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Qu	estion No : 20 of 52	
At	n $n imes n$ matrix A is diagonalizable if and only if A has	
Ans	swer (Please select your correct option)	
	n linearly independent eigenvectors	
c		
	ans	
	n^2 linearly independent eigenvectors	
С		
	n +1 linearly independent eigenvectors	
c		
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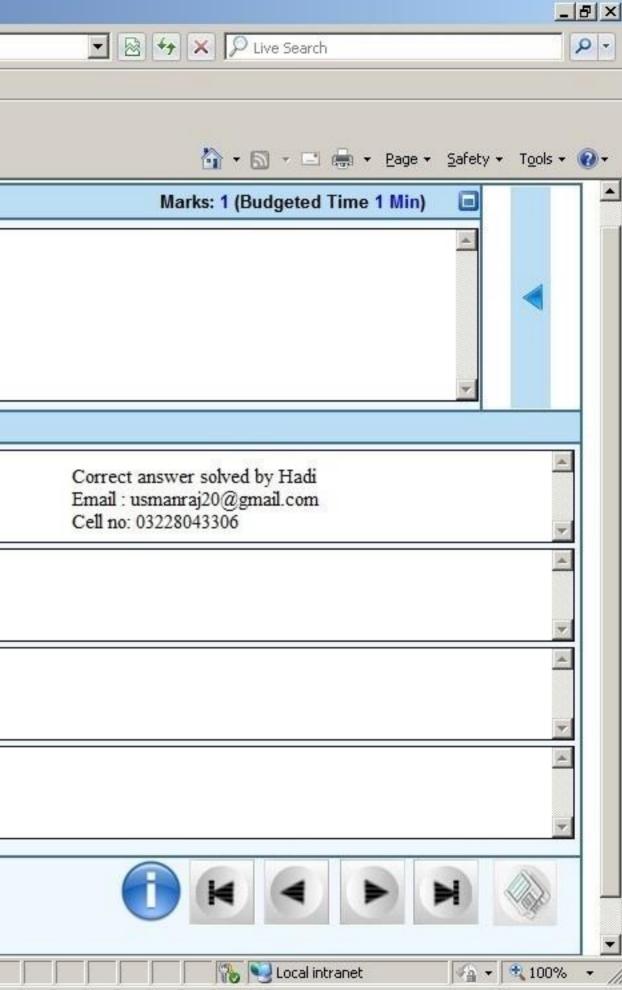
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Question No : 21 of 52	
Let A have eigenvalues 2, 5, 0,-7, and -2. Then the dominant eigenvalue for A is	
Answer (Please select your correct option)	
$\lambda = 5$	
$\lambda = 0$	
$\lambda = -7$	
0	
$\lambda = 2$	
0	
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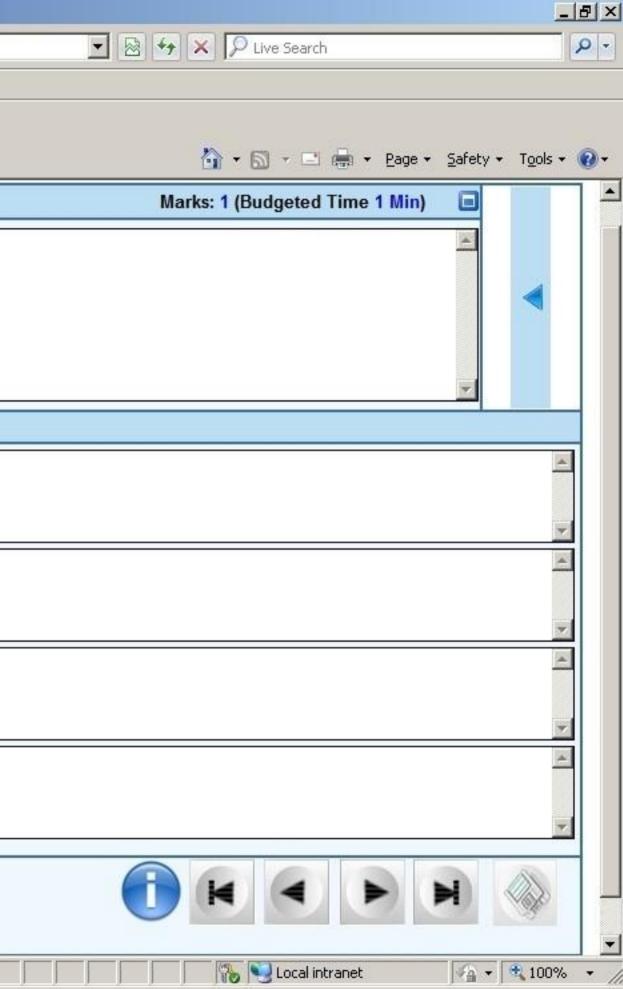
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Question No : 22 of 52			
Which statement is FALSE.			
Answer (Please select your correct option)			
If $Ax = \lambda x$ for some real number λ then λ is known as eigenvalue of t he matrix A.			
0			
The element of the second descent of the second sec			
The eigenvalues of any matrix are on its main diagonal.			
ans			
In order to find the eigenvalues we solve the equation $ A - \lambda = 0$			
C C C C C C C C C C C C C C C C C C C			
An eigenspaces of A is the Null space of some matrix.			
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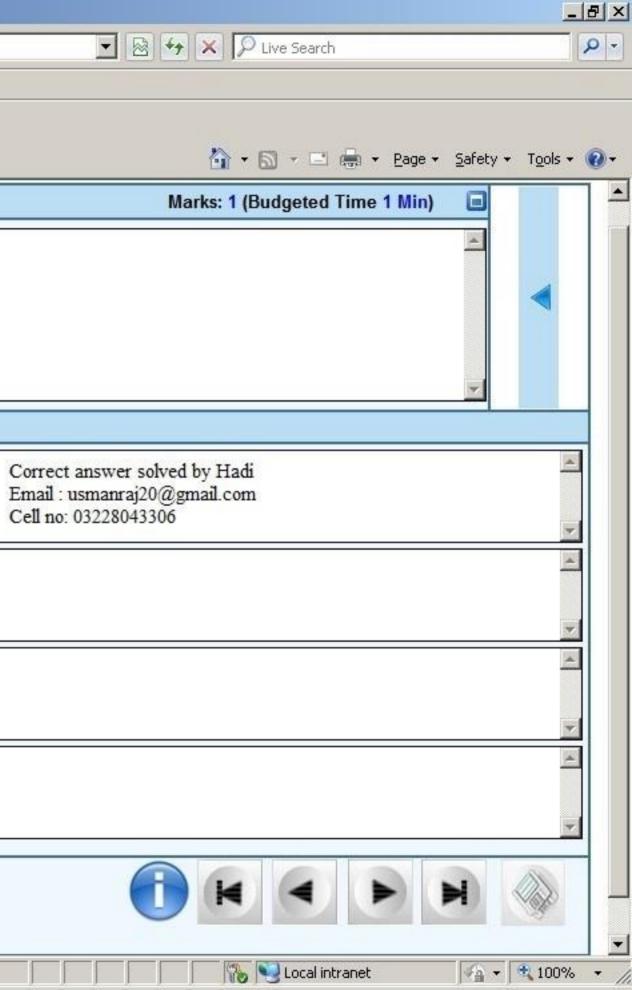
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Que	estion No : 23 of 52		
Alg	gebra is a transformation of real life problems into sort of		
1000			
Ansv	wer (Please select your correct option)		
	logical representation		
0	ans		
	mathematical representation		
0			
0	physical representation		
	illogical representation		
0			
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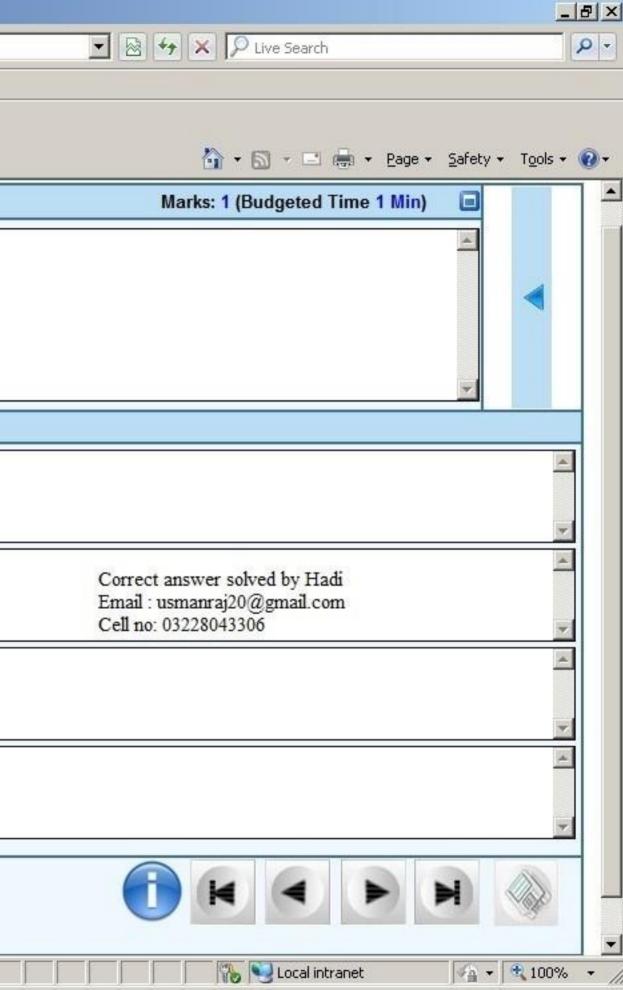
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Question No : 24 of 52					
If reduced echelon form of a linear system is $\begin{bmatrix} 1 & 0 & 5 & 5 \\ 0 & 1 & 1 & 6 \\ 0 & 0 & 0 \end{bmatrix}$ when free variable $x_3 = 0$, then which of the following is true for it?					
Answer (Please select your correct option)					
C The particular solution is $(0, 5, 6)$.					
C The particular solution is (6, 5, 0).					
C The particular solution is (5, 6, 0). ans					
C The particular solution is (0, 6, 5).					
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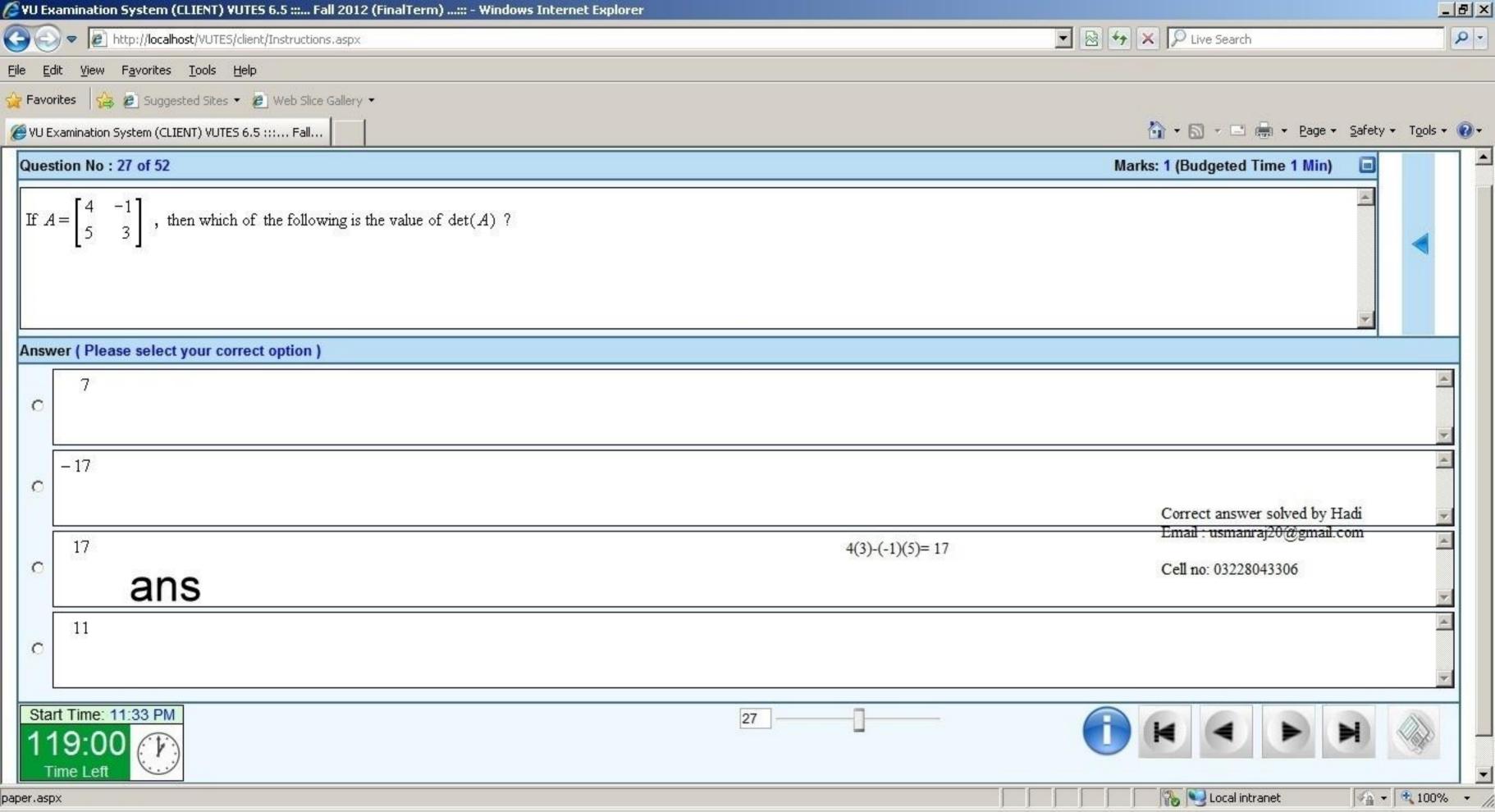


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Qu	uestio	on No : 25 of 52	
If	the v	vector equation $c_1 v_1 + c_2 v_2 = 0$ with $c_1 = 0 = c_2$ then which of the following is true for $\begin{pmatrix} r & r \\ v_1, v_2 \end{pmatrix}$?	
An	nswer	r (Please select your correct option)	
	It	t is a linearly independent set.	
C	1.0.0		
	_	ans	
	It	t is a linearly dependent set.	
	2		
	Г	he system of equations is inconsistent.	
C	1.		
0	202	he system of equations is non- homogeneous.	
	~		
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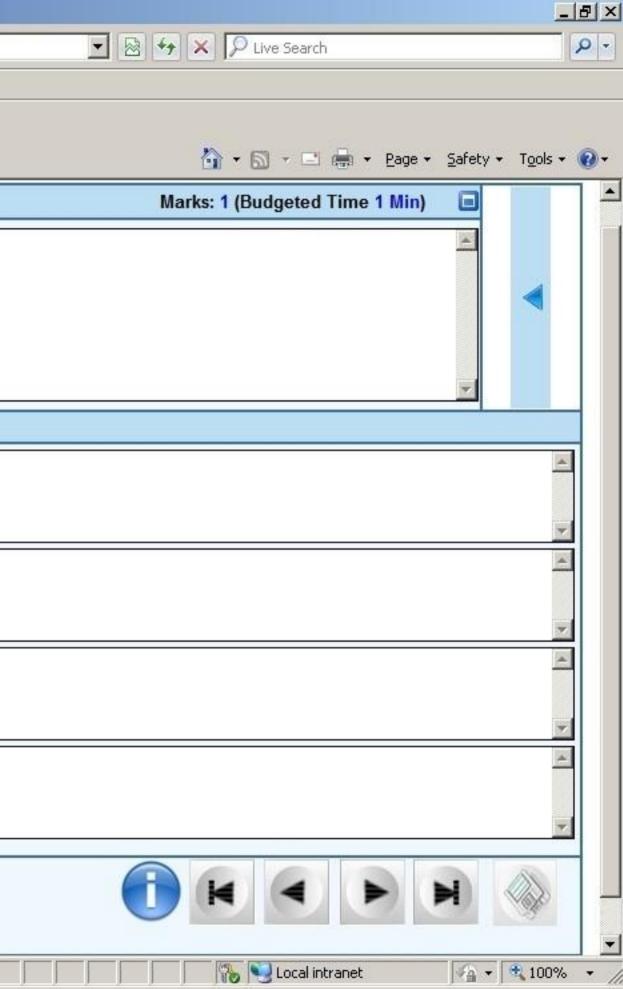


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Question No : 26 of 52
Which of the following is true for the linear operator L defined by $L\left(\begin{bmatrix}a_1\\a_2\end{bmatrix}\right) = \begin{bmatrix}a_1\\-a_2\end{bmatrix}?$
Answer (Please select your correct option)
C It is an enlargement by a negative scale factor.
o It is a shear. ans
C It is a reflection about $X - axis$.
C It is a reflection about $Y - axis$.
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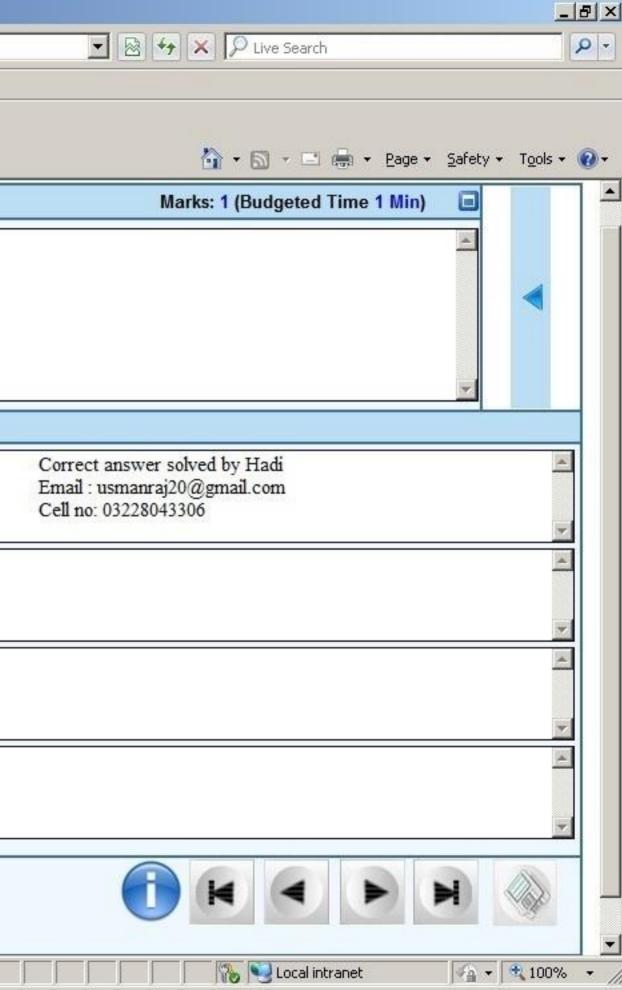




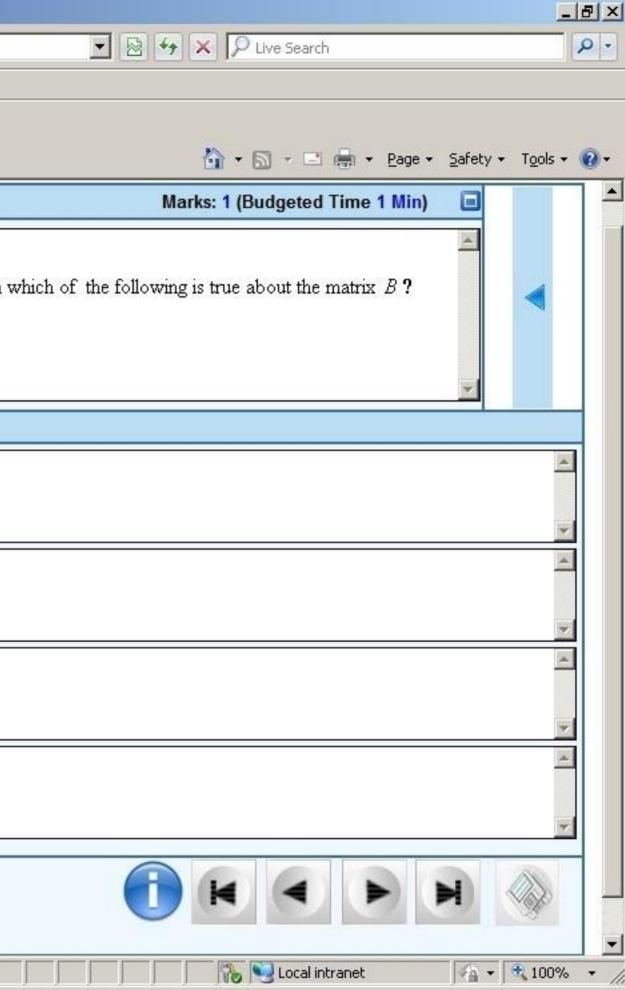
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Question No : 28 of 52				
If the matrix $A = \begin{bmatrix} 1 & 2 & 3 \\ 0 & 1 & 2 \\ 0 & 0 & 2 \end{bmatrix}$, then which of the following is true about it ?				
Answer (Please select your correct option)				
C Its determinant is 0.				
C Its determinant is 1.				
C Its determinant is 2. ans				
C Its determinant is 4.				
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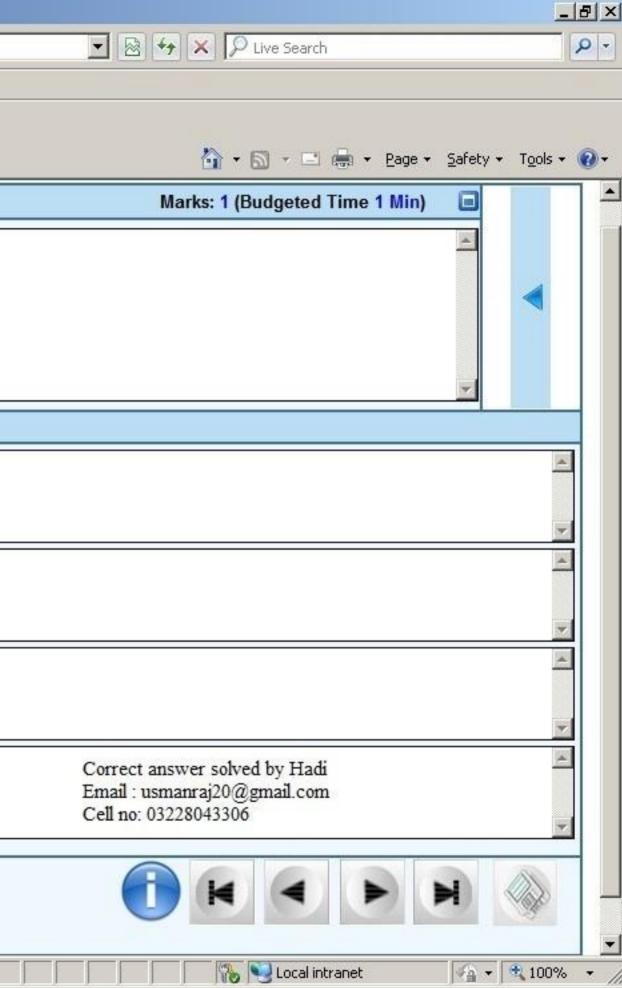
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Question No : 29 of 52		
If the matrix $A = \begin{bmatrix} 1 & 5 & 4 \\ 0 & 1 & 7 \\ 0 & 0 & 0 \end{bmatrix}$, then which of the following is true about it ?		
Answer (Please select your correct option)		
C Its determinant is 0. ans		
Its determinant is 2.		
C Its determinant is 4.		
C Its determinant is 6.		
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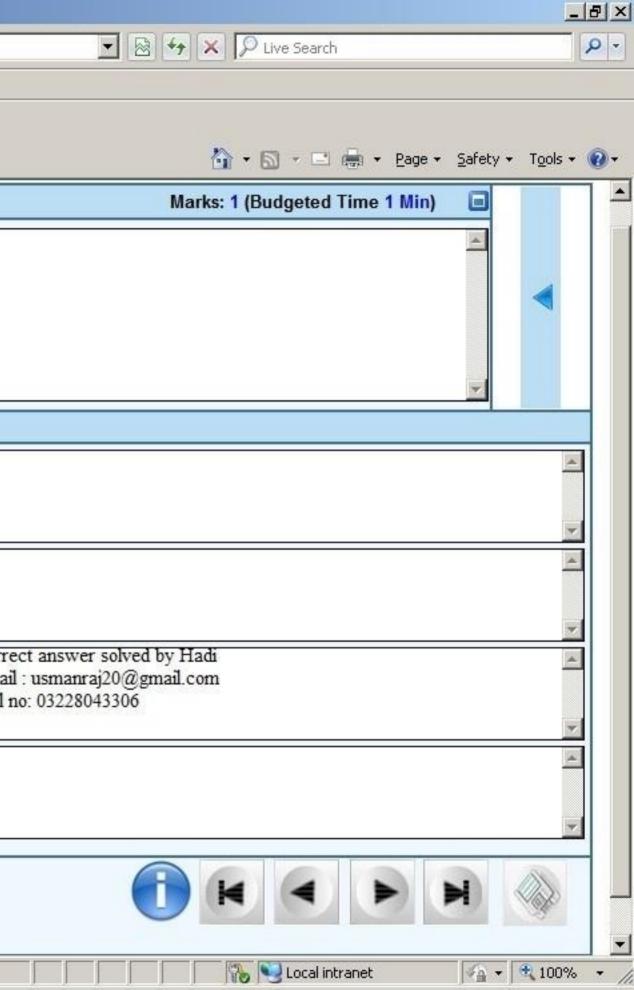
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Question No : 30 of 52
If the determinant of the matrix $A = \begin{bmatrix} 4 & 3 & 5 \\ 3 & 1 & 1 \\ 5 & 7 & 7 \end{bmatrix}$ is 32 and the matrix <i>B</i> is obtained by multiplying any row of <i>A</i> with an integer value 4, then
Answer (Please select your correct option)
C Its determinant is 18.
C Its determinant is -32.
C Its determinant is 128. Its determinant is 128.
C The information is not sufficient to calculate the determinant.
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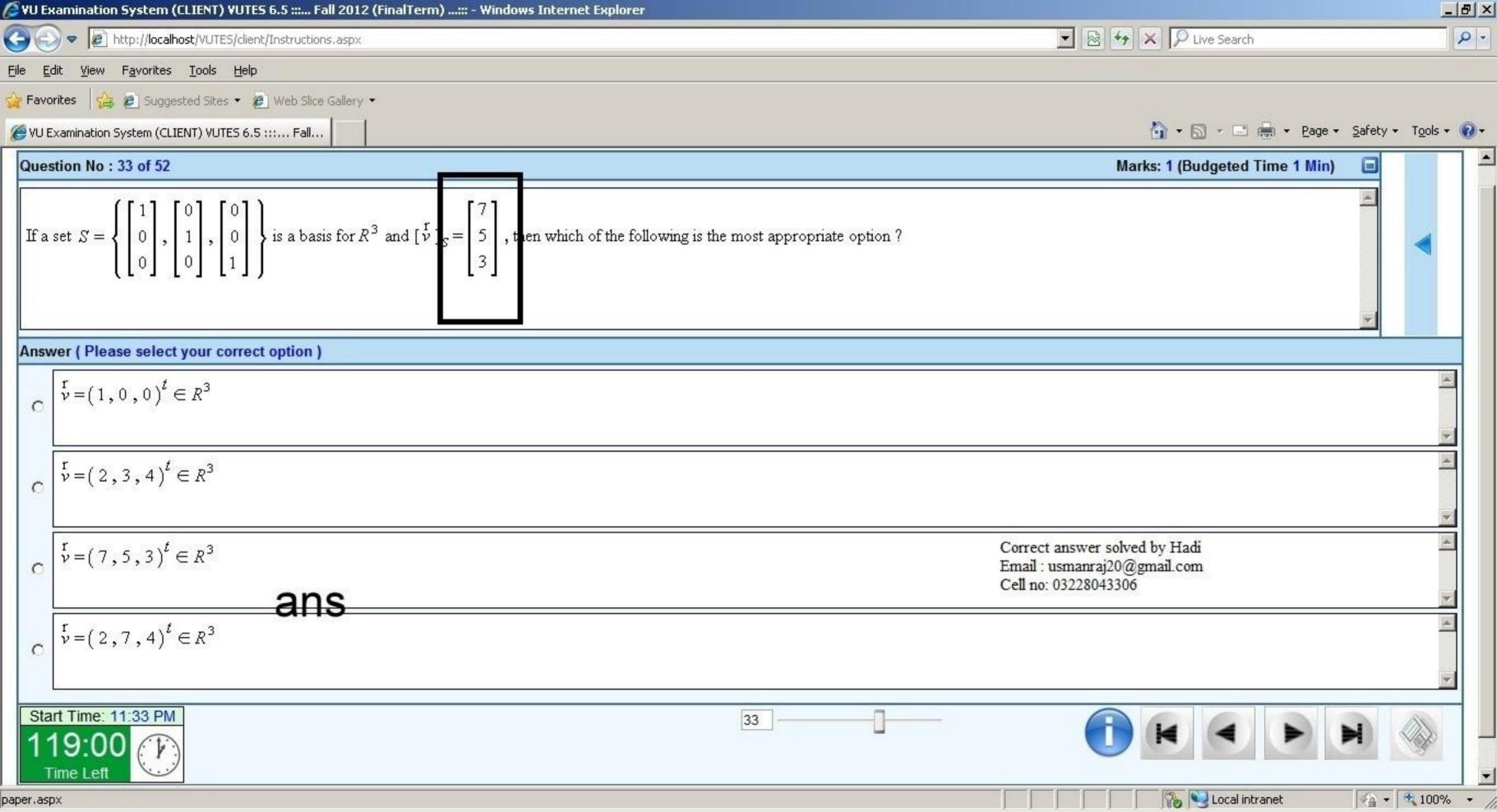


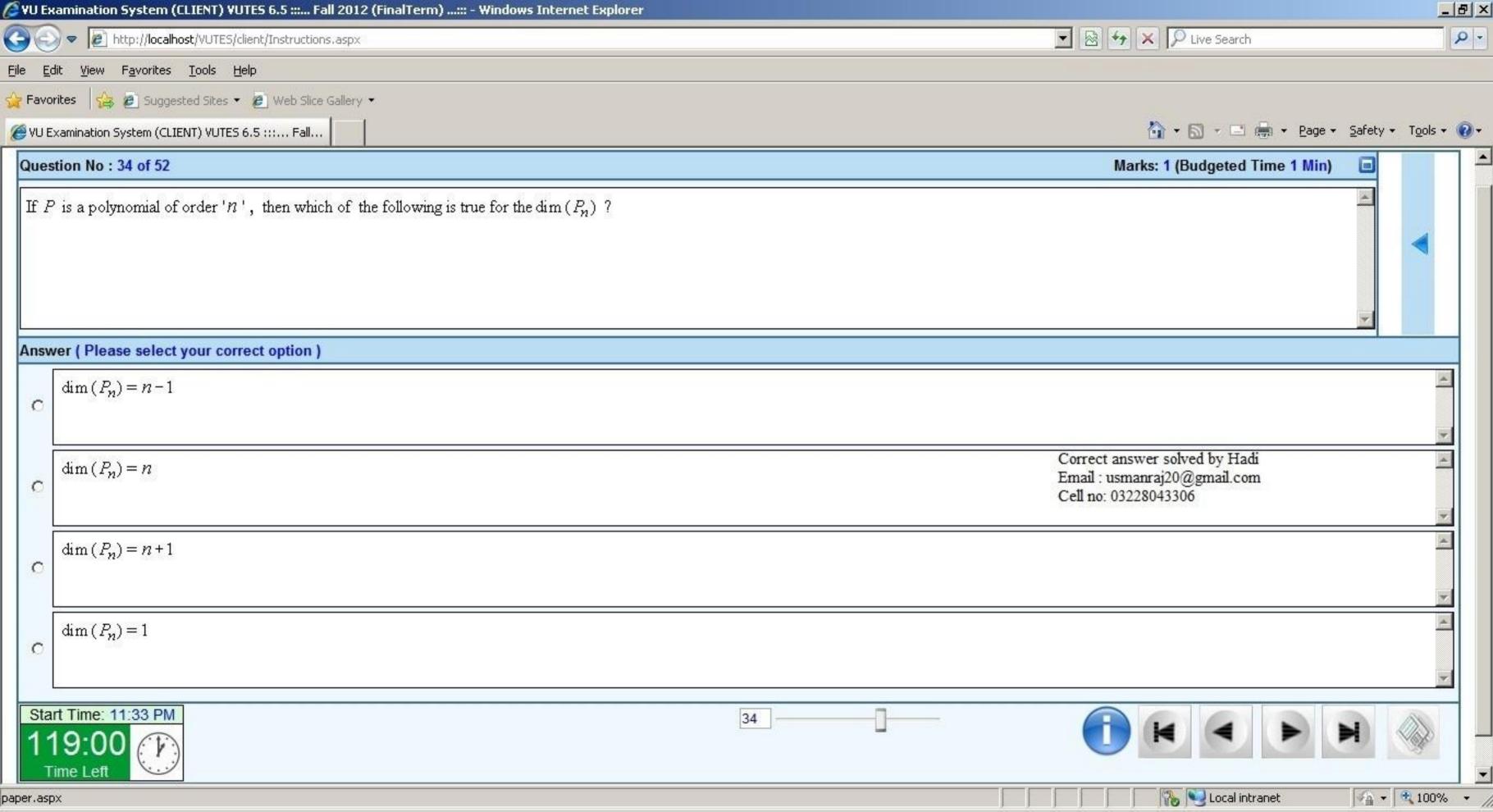
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Question No : 31 of 52				
If a set W be a subspace of a vector space V , then which of the following is NOT true for it ?				
Answer (Please select your correct option)				
It must be closed under the scalar multiplication.				
It may or may not be closed under the operation of addition .				
0				
It must have an additive inverse of each element.				
It must be commutative under the operation of addition .				
0				
ans				
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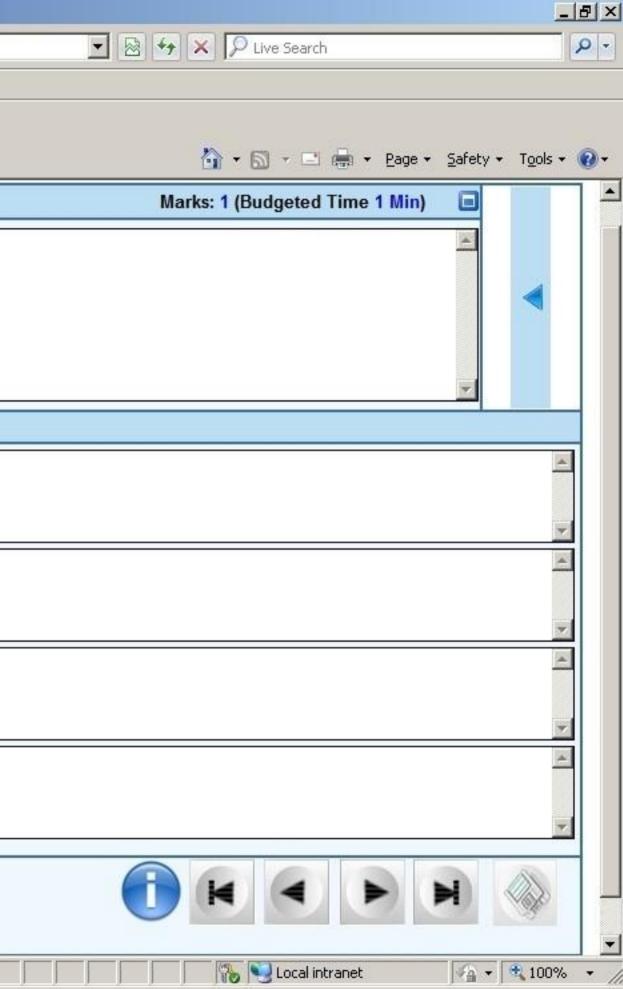
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Que	Question No : 32 of 52				
Le	et a set S is a basis of a vector space ${\cal V}$, then which of the following is NOT true about it ?				
Ans	swer (Please select your correct option)				
С	It spans V.				
c	It is linearly independent.				
c	It is linearly dependent. ans	Corre Emai Cell :			
c	Each element of S belongs to V .				
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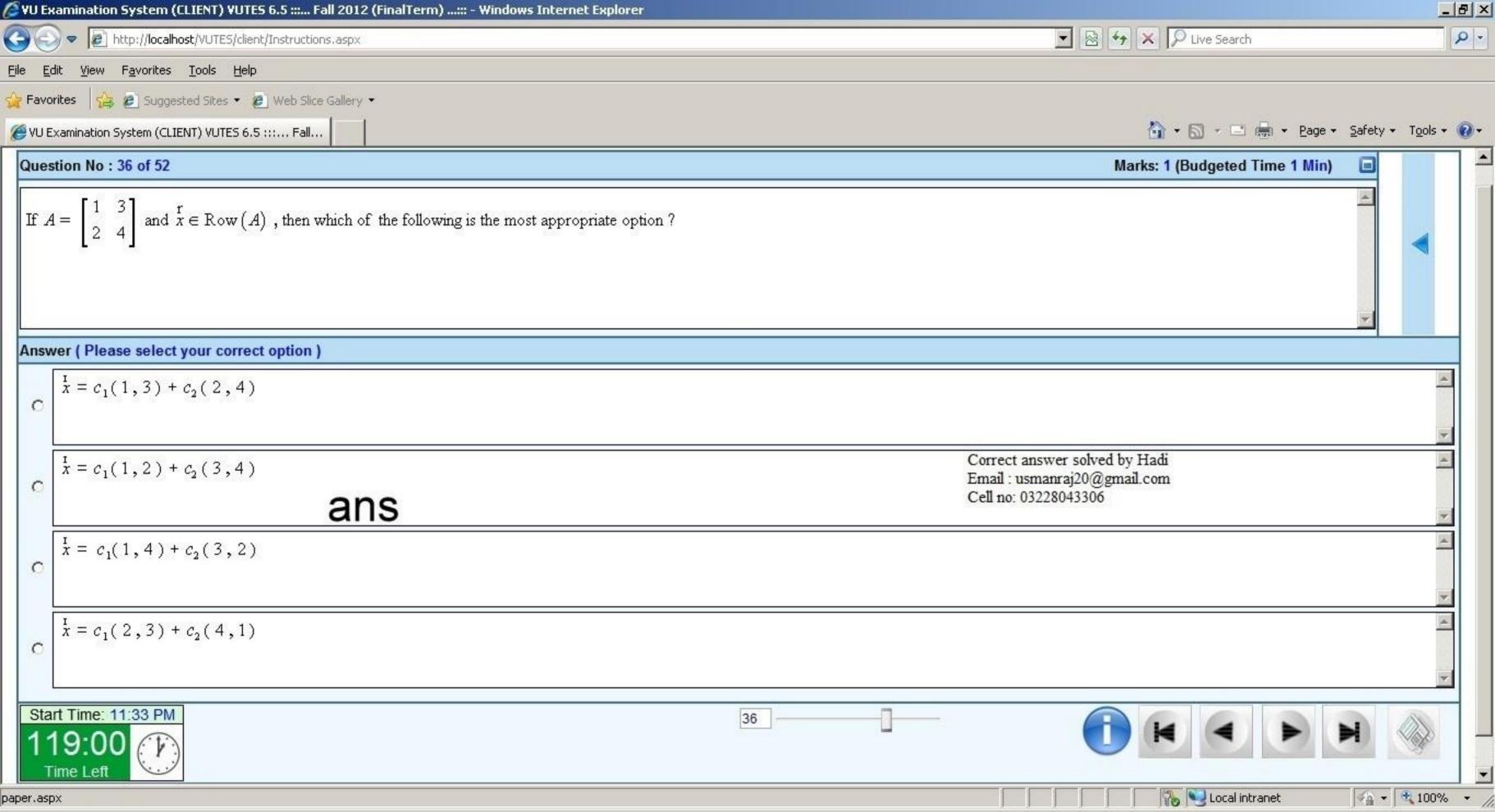


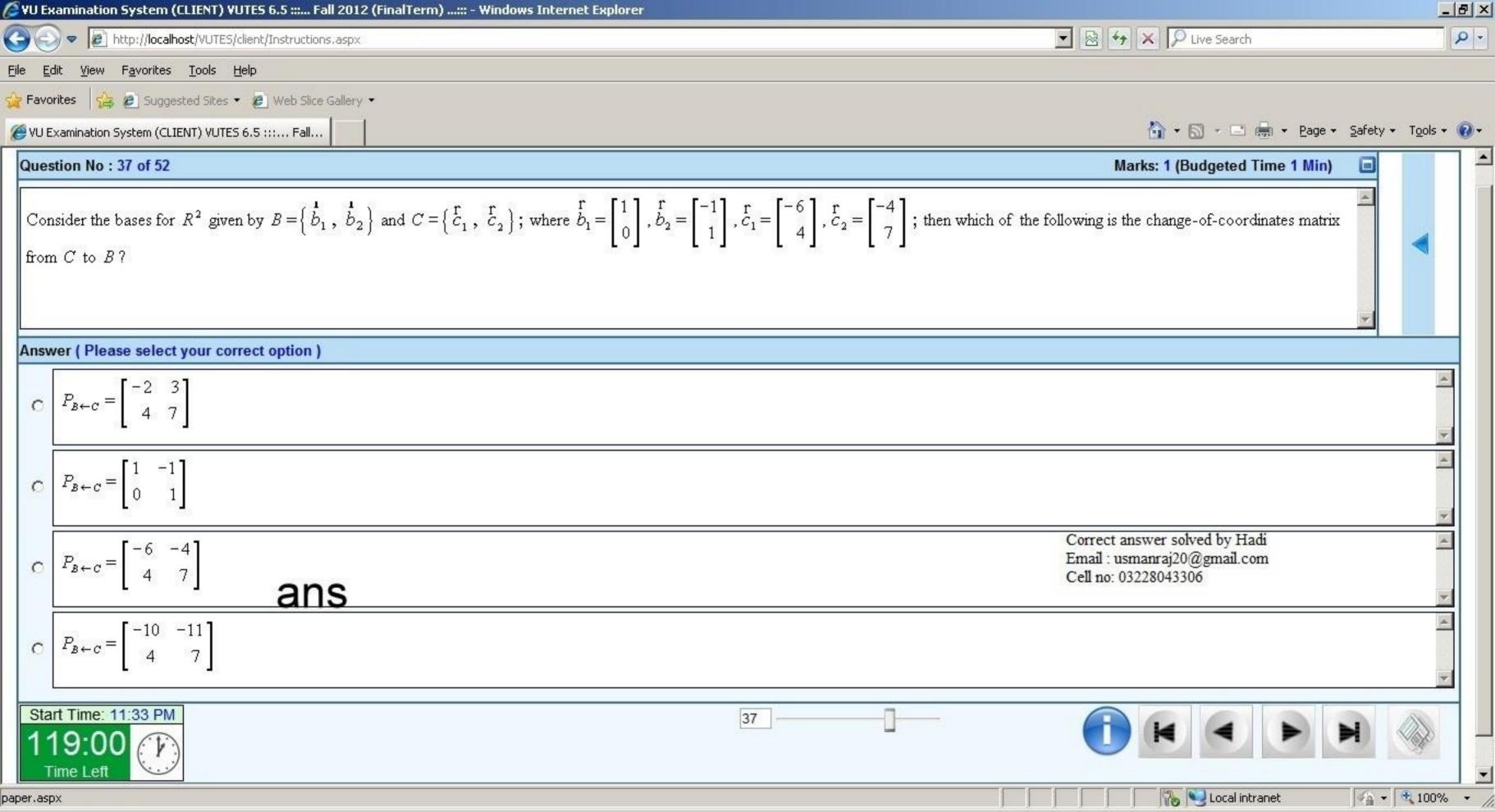


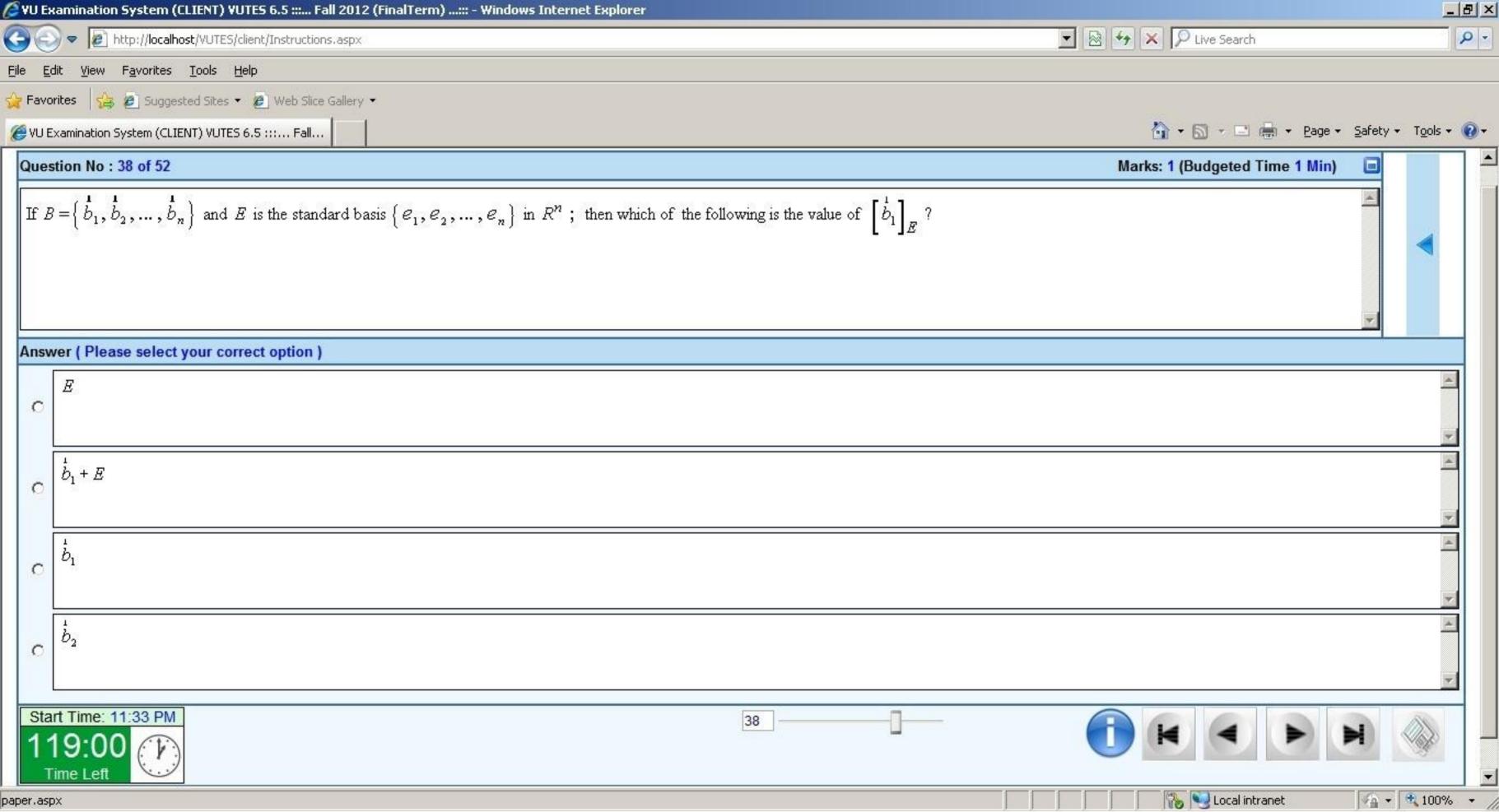


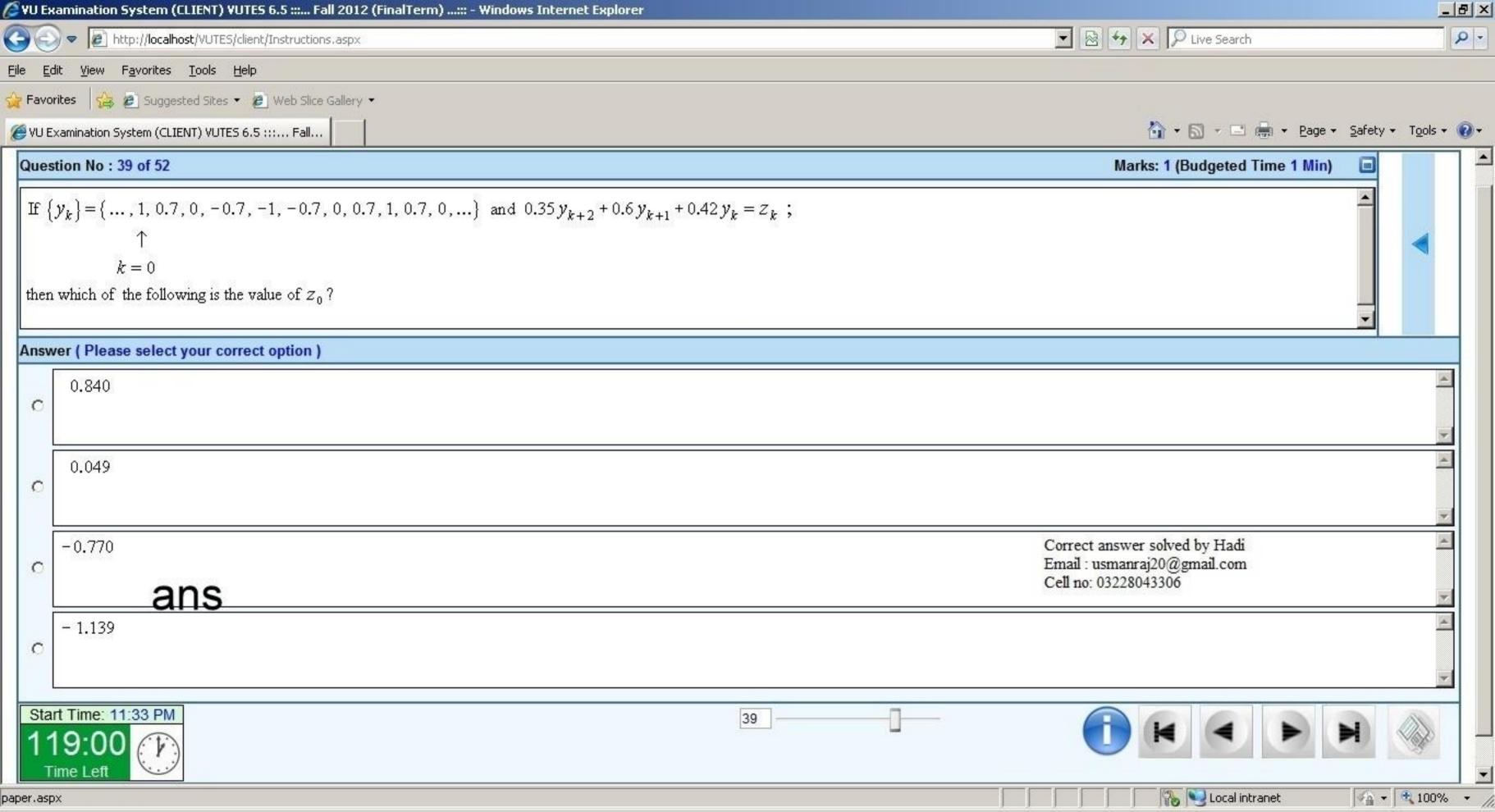
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