Time Left 82 soc(s 4, 06 February 20
Total Mark
d Math Equations

 \bigcirc

 \equiv

 \square

Eall	11:39 PM	?: 14%	
X Quiz vulms.vu.ee	du.pk	Д	≪ :
MC210203810: FATIMA FIRDOUS MTH603 - Numerical Analysis (Quiz No.3)		Quiz Sto	Time Left 86 soc(s) rt Time: 11:33 PM, 06 February 2022
Question # 8 of 10 (Start time: 11:39:07 PM, 06 Februar	y 2022)		Total Marks
the polyne	For the following data x = 1 = 2 = 5 = 7 = 8 y = -5 = 10 = 20 = 22 = 24 mial of the Lagrangens interpo	lation could be	
Select the correct option	/	2	👰 Reload Math Equations
$\bigcirc -\frac{11}{280}x^4 + \frac{419}{420}x^3 - \frac{7003}{840}x^2 + \frac{15019}{420}x - \frac{98}{3}$			
$\bigcirc \frac{\frac{4}{41}x^7 - \frac{43}{7}x^2 + \frac{63}{28}x - \frac{186}{5}}{5}$			
$\bigcirc -\frac{1121}{80}x^5 + \frac{41}{7}x^3 - \frac{163}{40}x^2 + \frac{19}{81}x - \frac{3}{10}$			
$\bigcirc x^{6} - \frac{1}{56}x^{5} + \frac{47}{5}x^{4} - \frac{67}{90}x + \frac{2}{5}$			
		1 martineses	Instant & Moun to Mart Chartford

Download More Quizzes Files From

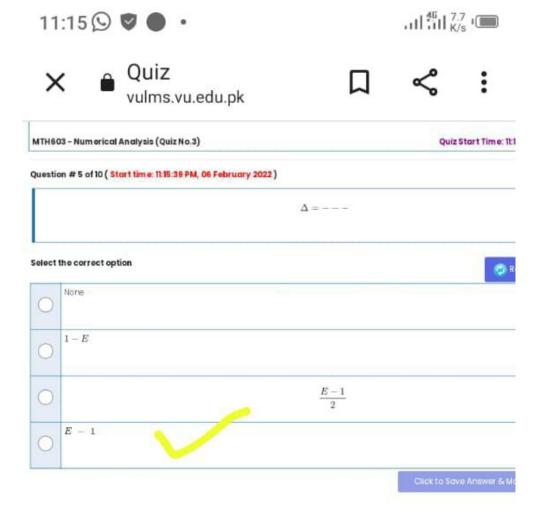
VUAnswer.com

L)

×	Quiz vulms.vu.edu.pk	П	<
MC200203034; HJ	ADIA NAWAZ		Tim e Le
MTH603 - Numerie	cal Analysis (Quiz No.3)	Quiz Start 1	time: 1112 PM, 05 Febr
Question # 9 of 10 ((Start time: 11 19:06 PML 06 February 2022)		Tota
For	the given data points (x_0, y_0) , (x_1y_1) , (x_2y_2) , and (x_3, y_3) the first	– order divide differen	nce will be given as
For select the correct	aption	– order divide differer	nce will be given as
		– order divide differes	
	aption	- order divide differen	
	option $y_i^{\!$	- order divide differen	

 \bigcirc

 \triangleleft



Ο

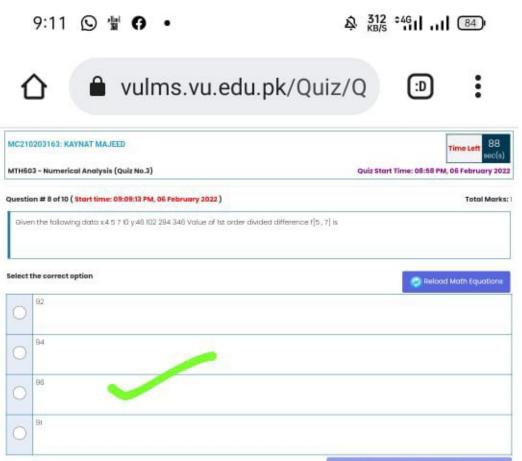
0

×	Quiz vulms.vu.edu.pk		~	:
MC210203610: FA	TIMA FIRDOUS cal Analysis (Quiz No.3)	Quiz St	Tin art Time: 11:33 PM, 06	ne Left soc(s) February 202
Question #1 of 10 (start time: 11:33:33 PM, 06 February 2022)			Total Marks
$t f(x) = 2x^3 -$	$5x^2+9x-6$, then itsderivative is zero for all x.			
# $f(x) = 2x^3 -$			👰 Reload Mc	ath Equations
-86.8			🜍 Reload Mc	ath Equations
Select the correct o			💿 Reload Mo	ath Equations
Select the correct o			😨 Reload Ma	ath Equations

 \bigcirc

 \equiv

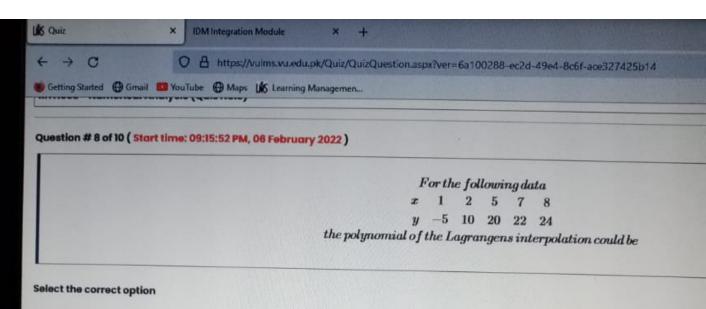
 \square

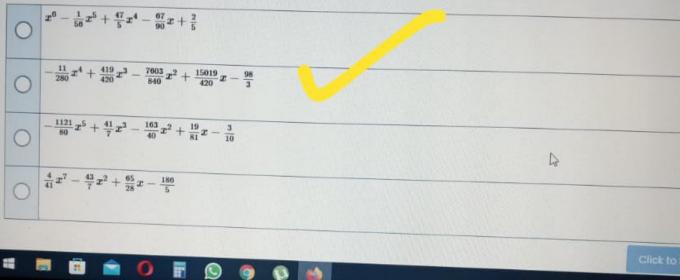


Click to Sove Answer & Move to Next Question

 \square

 \triangleleft





← 13°C Ligh

			iu.pi	k/Qui:	2/(1 🚺
IC200405293: MUHAMMAD AMIR	Downloa	d N	lore C	Quizzes	Files Fro	M Time Left 99 sec(s)
ATH603 - Numerical Azialysis (Quiz No.3)	VUAnsw	er.c	com		Quiz Start Ti	me: 11:10 PM, 06 February 202
uestion # 6 of 10 (Start time: 11:18:18 PM, 0	6 February 2022)					Total Marks
For the given data y	ooints (4, 2.2), (8, 3.5), an	d(12, 4.1)	the divide diff	erence table will	be given as
		_				
elect the correct option						Reload Math Equations
	x	у		2ndD, D		
•	4 8	2.2 3.5	0.325	-0.0108		
	12	4.1				
	x	ÿ	1stD, D	2ndD, D		
0	4 8	2.2	0.325 0.15	-0.098		
	12		10,110	-4.498		
	x	ý	1stD.D	2ndD, D	1000	
0		2.2	0.325			
	8 12	3.5 4.1	0.15	-0.0219		
	x	y	1stD.D	2ndD.D		
	<i>x</i> 4	y 2.2	1 <i>stD.D</i> 0.325	2ndD.D		

 \bigcirc

 \equiv

CRick to Save Answer & Move to Next Question

11:17	1:17 💟 🌑 🖾 🔹		.11 .11 B/	56 I
×	Quiz vulms.vu.edu.pk	Д	Ś	:
	rical Analysis (Quiz No.3) 0 (start time: 11:17:18 PM, 06 February 2022)		Quiz Start 1	fime: 11.12 PM, 06
	For the given data points $(2, 5)$, $(4, 7)$, and	(6,9), the first – order	divide di f ferenc	e will be
Select the correc	st option			🔗 Reload M
0				
0				
O ²				
0	Download More	Quizzes File	s From	
	VUAnswer.com		Click to Save Answ	wer & Move to N

 \triangleleft

Ο

Ο

11:24 🛇 🕼 🤝		(I •	,ı , ¹²⁹ '
X	lu.pk	Д	≪ :
MC210203815: ASMA NAEEM MTH603 - Numerical Analysis (Quiz No.3)		Quiz Star	Time Left 73 sac(s) t Time: 11:20 PM, 06 February 2022
Question # 7 of 10 (start time: 11:24:01 PM, 06 February	2022)		Total Marks: 1
What will be th Select the correct option	we value of 'a' in the given divide x y 1stD.D 2ndD.D 3 0.4 6 0.9 0.1667 9 1.7 0.2667 a	difference table?	🔊 Heload Math Equations
0 00167 0 0.028	Download Mor VUAnswer.cor		Files From
00349			



•

\mathbb{Q}°						₹ .II .I	II _{B/s} '
МТН6	03 (2) S KHAN ^{pl}	٢				Ş	:
🚾 CS101	Assignments						Time Left 57
	study&_dis©				Quiz	itart Time: 11:20 (PM, 06 February 2022
Question # 9 of 10 (ste	art time: 11:25:49 PM, 06 February 2022)	_					Total Marks: 1
1	For the given data points (4, 1.3), (8, 1.5), an	d(12,1.9)	the divide diffe	crence tab	le will be given i	13
select the correct opti	on					📀 Reio	ad Math Equations
	2	y 1.3	1stD. D 0.0062	2ndD, D			
	8 12	$1.5 \\ 1.9$	0.1	0.05			
	12	1.9 y	0.1 1 <i>stD.D</i>	0.05 2ndD.D			
0	12 # 4 8	1.9 y 1.3 1.5	0.1				
0	12 # 4	1.9 y 1.3 1.5	0.1 1 <i>stD.D</i> 0.1	2ndD, D			
0	12 # 4 8	1.9 y 1.3 1.5 1.9 y	0.1 1stD.D 0.1 0.35 1stD.D	2ndD, D			
0	12 * 4 8 12	1,9 y 1,3 1,5 1,9	0.1 1 <i>stD.D</i> 0.1 0.35	2ndD, D 0.0062		1418	
0	12	1.9 y 1.3 1.5 1.9 y 1.3	0.1 1stD. D 0.1 0.35 1stD. D 0.1	2ndD, D 0.0062 2ndD, D			
0	12	1.9 y 1.3 1.5 1.9 y 1.3 1.5 1.9 y	0.1 1 <i>stD. D</i> 0.1 0.35 1 <i>stD. D</i> 0.1 0.0062 1 <i>stD. D</i>	2ndD, D 0.0062 2ndD, D		/	
• • • •	12	1.9 y 1.3 1.5 1.9 y 1.3 1.5 1.9	0.1 1 <i>stD. D</i> 0.1 0.35 1 <i>stD. D</i> 0.1 0.0062	2ndD, D 0.0062 2ndD, D 0.05		/	

Ċ

Ο

 \Box

Click to Sove Answer & Move to Next Que

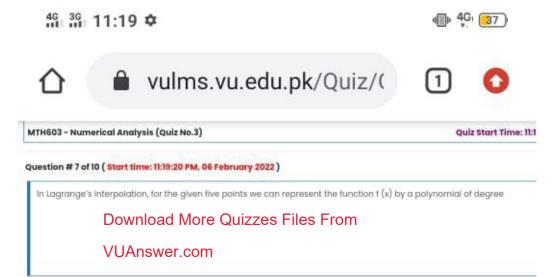
11::	27 🛇 🗊 🤝	⊂ ، ال الا ^{5,4} ال
×	Quiz vulms.vu.edu.pk	ロ ペ :
MC210203	815: ASMA NAEEM	Time Left 83 soc(s)
	Rumerical Analysis (Quiz No.3) 10 of 10 (start time: 11:27:24 PM, 06 February 2022)	Quiz Start Time: 11:20 PM, 06 February 2022 Total Marks:
select the c	orrect option	👰 Reload Math Equations
~		
0	$y = f(x) = \frac{(x - 0.7)(x - 0.9)}{(0.3 - 0.7)(0.3 - 0.9)}(0.248) + \frac{(x - 0.3)(x - 0.3)}{(0.7 - 0.3)(x - 0.3)}(0.248)$	$(0.7-0.9)^{(0.067)} + (0.9-0.3)(0.9-0.7)^{(0.518)}$
0	$y = f(x) = \frac{(x - 0.7)(x - 0.9)}{(0.3 - 0.7)(0.3 - 0.9)}(0.518) + \frac{(x - 0.3)(0.518)}{(0.7 - 0.3)(0.518)} + \frac{(x - 0.3)(0.518)}{(0.7 - 0.518)} + \frac{(x - 0.5)(0.518)}{(0.7 - 0.518)} $	$\frac{(x-0.9)}{(0.7-0.9)}(0.248) + \frac{(x-0.3)(x-0.7)}{(0.9-0.3)(0.9-0.7)}(0.067)$
0	$y = f(x) = \frac{(x - 0.7)(x - 0.9)}{(0.3 - 0.7)(0.3 - 0.9)}(0.067) + \frac{(x - 0.3)(x - 0.3)}{(0.7 - 0.3)(0.3 - 0.9)}(0.067) + \frac{(x - 0.3)(x - 0.3)}{(0.7 - 0.3)(0.3 - 0.9)}(0.067) + \frac{(x - 0.3)(x - 0.9)}{(0.7 - 0.3)(0.3 - 0.9)}(0.067) + \frac{(x - 0.3)(x - 0.9)}{(0.7 - 0.3)(0.3 - 0.9)}(0.067) + \frac{(x - 0.3)(x - 0.9)}{(0.7 - 0.3)(0.3 - 0.9)}(0.067) + \frac{(x - 0.3)(x - 0.9)}{(0.7 - 0.3)(0.3 - 0.9)}(0.067) + \frac{(x - 0.3)(x - 0.9)}{(0.7 - 0.3)(0.3 - 0.9)}(0.067) + \frac{(x - 0.3)(x - 0.9)}{(0.7 - 0.3)(0.3 - 0.9)}(0.067)$	$\frac{(x-0.9)}{(0.7-0.9)}(0.518) + \frac{(x-0.3)(x-0.7)}{(0.9-0.3)(0.9-0.7)}(0.248)$
0	$y = f(x) = \frac{(x - 0.7)(x - 0.9)}{(0.3 - 0.7)(0.3 - 0.9)}(0.067) + \frac{(x - 0.3)(x - 0.3)}{(0.7 - 0.3)(0.3 - 0.9)}(0.067)$	${(x-0.9) \over (0.7-0.9)}(0.248)+{(x-0.3)(x-0.7) \over (0.9-0.3)(0.9-0.7)}(0.518)$
		Click to Save Answer & Move to Next Question

Download More Quizzes Files From

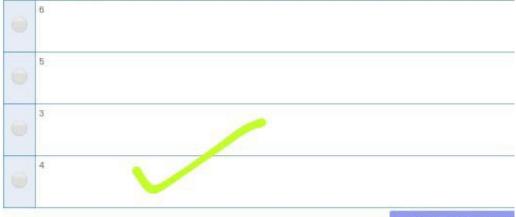
VUAnswer.com



: כ



Select the correct option



Click to Save Answer &

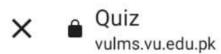
11:2	11:20 💬		레指미 ¹² K/	2.9 /s
×	Quiz vulms.vu.edu.pk		Ş	:
rical Analysis	s (Quiz No.3)	Quizs	itart Time: 11:12 PM	A, OB February
0 (Start time	e: 11:19:59 PM, 06 February 2022)			Total Ma
t option	Download More Quizzes File VUAnswer.com	s From	🔗 Reloc	id Math Equatic
	v OAnswer.com		(Reloo	id Math Equatio
	$y[x_0]$	\checkmark		
	$y[x_0,x_1]$			
	$y[y_0,y_1]$			
		Click to Savi	e Answer & Move t	to Neid Questio



 \triangleleft

10:16 PM 📥 🕥

® II. II. 🗟 Ω ⑦



Ċ

0

	0.20	
	مر	•
	0	
\sim	0	•

:)

180403728: AROOBA KHAN					Time Left
TH603 - Numerical Analysis (Quiz No.3)				Quiz Start Time: 10:00	PM. 06 Febru
estion # 10 of 10 (start time: 10:16:16 PM, 06 Feb	ruary 2022)				Toto
Which of the following				the given values of x and y	?
Which of the following	x 0.3	for inte 0.7 0.248	0.9	the given values of x and y	?

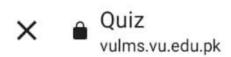
lect	the correct option	🧑 Reload Math Equ
С	Newton's backward difference formula	
С	Newton's forward difference formula	
C	Lagrange's interpolation formula	
C	Newton's interpolation formula	
		Click to Save Answer & Move to Next Que

× ê Qu	i z ns.vu.edu.pk	Д	×	
BC180403728: AROOBA KHA				
MTH603 - Numerical Analysi	s (Quiz No.3)			Quiz Start Ti
Question # 9 of 10 (Start time	: 10:14:47 PM, 06 February 2022)			
	What will be the value of 'a' x y 1stD 1 0.4 0.2 3 0.9 0.4 5 1.7 0.3 7 2.3 Download More Qu	. D 2ndD. D 5 0.0375 a	3rdD. D -0.0104	ALC FIRME I
Select the correct option	VUAnswer.com	•		
0.025				
-0 009				
-0.0343				
-0.0012				

Ċ

C

10:14	4 PM	4	0
-------	------	---	---



Ś	:
-	

```
Quiz Start Time: 10:08
```

🕝 Rel

```
Question # 8 of 10 ( Start time: 10:14:03 PM, 06 February 2022 )
```

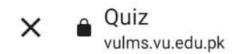
What will be the value of $'a'$ in the given divide difference table?				
x	y	1stD. D	2ndD.D	3rdD.D
2	0.5	0.3	a	
4	1.1	0.3	-0.0125	-0.0021
6	1.7	0.25		
8	22			

Select the correct option

0	0.0612	2
0	0	Download More Quizzes Files From
0	0.0893	VUAnswer.com
0	0.0115	
	1	Click to Save Anawer & Mov

5

10:1	1	DM	L
10.1		I IVI	



	1000	
	مر	•
	0	
\sim	0	•

Quiz

BC180403728	AROOBA KHAN

MTH603 - Numerical Analysis (Quiz No.3)

Question # 4 of 10 (Start time: 10:10:55 PM, 06 February 2022)

If any ten data points are given,the degree of Lagrange's interpolation polynomial could be

Download More Quizzes Files From

VUAnswer.com

C

С	nine		
C	eleven		
C	twelve		
2	ten		

)

.

	10:13 PM 📥		®י II. II. 🦻 📲 🕄 Ö		
×	Quiz vulms.vu.edu.pk	Д	Ş	:	
uestion #7 of	f 10 (Start time: 10:13:20 PM, 06 February 2022))			
Given the fol	lowing data x1 2 7 II y 6 10 13 37 Which formula is	useful in finding the interp	olating polynomi	aP	
elect the corr	ge's interpolation formula	/			
Newtor	n's forward difference interpolation formula				
O Newton	n's backward difference interpolation formula				
None					
			Click to	Save Answer (

Download More Quizzes Files From

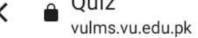
VUAnswer.com

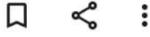
C

0

:)

10:12 PM 📥 🕲 🗛 🗣 🤶 💷 💷 Quiz ×



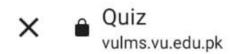


f 10 (Start time: 10:12:08 PM, 06 February 2022)

 $For the given \ data \ points \ (1,0.3), \ (3,1), \ and \ (5,1.2) \ the \ divide \ difference \ table \ will \ be \ given \ as$

ect option					🕝 Reload
	x	y	1stD.D	2ndD, D	
	2	0.3	0.35		
	4	1	0.1	-0.525	
	6	1.2			
	x	у	1stD.D	2ndD.D	
	2	0.3	0.35		
	4	1	0.1	-0.125	
	6	1.2			
	x	у	1stD.D	2ndD.D	
	2	0.3	0.35		
	4	1	0.1	-0.225	
	6	1.2			
	x	y	1stD.D	2ndD.D	
	2	0.3	0.35		
	4	1	0.1	-0.0625	
	6	1.2			

10:08 PM 📥 🖸	.)	0	1	PM	8	:0	0	1	
--------------	----	---	---	----	---	----	---	---	--



	\$:

Question #1 of 10 (Start time: 10:08:40 PM, 06 February 2022)

x 13 7 f(x) 14 9 f(3) Can be found using

Download More Quizzes Files From

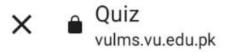
VUAnswer.com

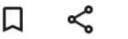
Select the correct option

0	Newton's backward difference formula
0	None of the given choices
0	Newton's forward difference formula
0	Lagrange's interpolation formula
	Clickto Sove Ane

10:09 PM 📥

☺ ୷ ♣ 奈 ୷ ୷ ₪





:

uestion # 2 of 10 (Start time: 10:09:19 PM, 06 February 2022)

Given the following data x.0 14 y.2 14 Value of first order divided difference y[0,1]is

Download More Quizzes Files From

VUAnswer.com elect the correct option 1 -2 0 -1 2

	10:11 PM 📥			1 D	⊫ ? . .	1 100
	X	u.edu.pk		Д	\$:
50	03 - Num erical Analysis (Quiz No.3)				Quiz Start Ti	me: 10:08 PM, 0
tic	on # 5 of 10 (Start time: 10:11:28 PM, 06	February 2022)				
	Which of the follow	x	used for inte 3 4 0.067 0.248	6	e given values oj	
1	Newton's interpolation formula					😡 Reload I
))	Lagrange's interpolation formula					
1	Newton's backward difference formula	a				
	Newton's forward difference formula					

Click to Save Answer & Move to

ľ

5

 \cap

F	٠	1	1
Э	•	4	

MC210200645: N	MUHAMMAD	SHEHZAD		Time Left 88
U		vulms.vu.edu.pk/Quiz/Q	(:D)	0
\sim	4	vulnes un edu pl/Oui=/O	6	

elect	he correct option	Reload Math Equations
0	Newton's backward difference interpolation formula	
0	None	
0	Newton's forward difference interpolation formula	
0	Lagrangeni interpolation formula	

-		
-		
	_	

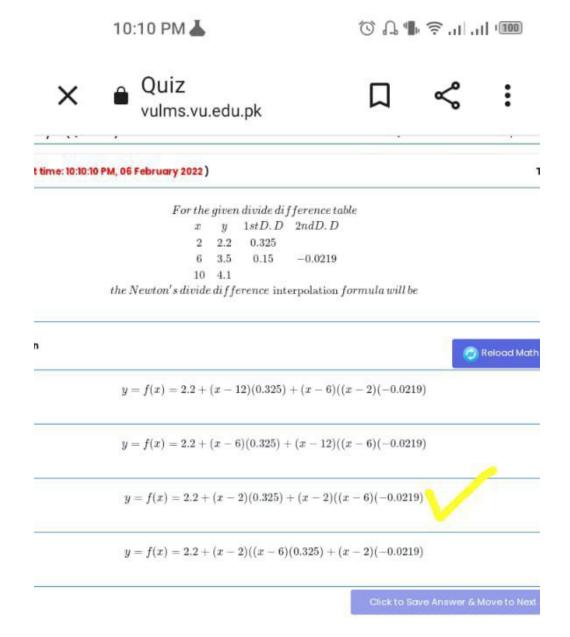
 \triangleleft

 \bigcirc

	≱ ப ீபி ோ
🖒 🔒 vulms.vu.edu.pk/	/Quiz/Q 🗊 🚺
MC210200645: MUHAMMAD SHEHZAD	Time Left Back
MTH603 - Numerical Analysis (Quiz No.3)	Quiz Start Time: 05:38 PM, 06 February
Question # 2 of 10 (Start time: 05:39:09 PM; 06 February 2022)	Total Ma
7.12 2000 constantinguismo • con	🌍 Peload Math Equatio
Select the correct option	🔗 seload Math Equatio
nu nu	n Period Math Equation
	Period Math Equation
 n¹ n¹ n¹² 	Deviced Math Equation

_

 \triangleleft



C

5:2	1 🖬	4G 4†	ııl .ııl 56'	% 💼
×	Quiz vulms.vu.edu.pk	Д	\$	÷
MC21020194	44: KASHIF RAZA		-	87

Quiz Start Time: 05:15 PM, 06 February 2022 MTH603 - Numerical Analysis (Quiz No.3) Question # 8 of 10 (start time: 05:21:53 PM. 06 February 2022) Total Marks: $If any three \, data \, {\rm points} \, are \, given, \, the \, formula \, for \, Lagrange's \, {\rm interpolation} \, polynomial \, will \, be$ Select the correct option 👩 Reload Math Equation $\frac{(x_0-x_1)(x_0-x_2)}{(x-x_1)(x-x_2)}y_0+\frac{(x_1-x_0)(x_1-x_2)}{(x-x_0)(x-x_2)}y_1+\frac{(x_2-x_0)(x_2-x_1)}{(x-x_0)(x-x_1)}y_2$ y = f(x) = $\frac{(x-x_1)(x-x_2)}{(x_0-x_1)(x_0-x_2)}y_0 +$ $\frac{(x-x_0)(x-x_2)}{(x_1-x_0)(x_1-x_2)}y_1 +$ $(x - x_0)(x - x_1)$ $\frac{(x_2 - x_3)(x_2 - x_1)}{(x_2 - x_3)(x_2 - x_1)} y_2$ y = f(x) = $y = f(x) = \frac{(x - x_1)(x - x_2)}{(x_1 - x_0)(x_1 - x_2)}y_0 + \frac{(x - x_0)(x - x_2)}{(x_0 - x_1)(x_0 - x_2)}y_1 +$ $\frac{(x-x_0)(x-x_1)}{(x_2-x_0)(x_2-x_1)}y_2$ $y = f(x) = \frac{(x - x_1)(x - x_2)}{(x_0 - x_1)(x_0 - x_2)}y_2 + \frac{(x - x_0)(x - x_2)}{(x_1 - x_0)(x_1 - x_2)}y_1 + \frac{(x - x_0)(x - x_1)}{(x_2 - x_0)(x_2 - x_1)}y_0$

Click to Sove Annexer & Move to Next Question









vulms.vu.edu.pk/Quiz/Q

1:

uestion # 7 of 10 (Start time: 05:34:16 PM, 06 February 2022)

Newton's divided difference interpolation formula is used when the values of the independent variable are

elect the correct option

0	Equally spaced	
0	None	
0	Not equally spaced	
0	Constant	
		Click to Save

5:20 🔤	4 ⁶ .미 .매 57% 着
X ■ Quiz vulms.vu.edu.pk	ር ペ :
MC210201944: KASHIF RAZA	Time Left 89
MTH603 - Numerical Analysis (Quiz No.3)	Quiz Start Time: 05:15 PM, 06 February 2022
Question # 6 of 10 (Start time: 05:20:20 PM, 06 February 2022)	Total Marks: :
Newton's divided difference interpolation formula is used when the values of the i	ndependent variable are
	ndependent variable are
Newton's divided difference interpolation formula is used when the values of the insert the correct option	
Newton's divided difference interpolation formula is used when the values of the insert the correct option Not equally spaced	

|||



٠

5:1	19 🖬	4G 4†	ul .ul 57	% 💼
×	Quiz vulms.vu.edu.pk	Д	Ļ	:
MC2102019	144: KASHIF RAZA	Time Left 89		e Left State
MTH603 - N	umerical Analysis (Quiz No.3)	Quiz Start Ti	me: 05:15 PM, 06 P	and the second second
Question # 6	5 of 10 (start time: 05:19:29 PM, 06 February 2022)			Total Marks: :
Differencia	If operator in terms of forward difference operator is given by			
select the co	errect option	3	👩 Reload Mat	h Equations
0	$D = \frac{1}{6} (\Delta - \frac{\Delta^2}{21} + \frac{\Delta^3}{31} - \frac{\Delta^4}{41} + \frac{\Delta^3}{51} - \dots)$			
0	$D = \frac{1}{n} \left(\Delta + \frac{\Delta^2}{2} + \frac{\Delta^3}{3} + \frac{\Delta^4}{4} + \frac{\Delta^3}{5} + \dots \right)$			

 $D = \frac{1}{h} (\Delta + \frac{\Delta^2}{2!} + \frac{\Delta^3}{3!} + \frac{\Delta^4}{4!} + \frac{\Delta^5}{5!} + \dots)$

 $D = \frac{1}{h} (\Delta - \frac{\Delta^2}{2} + \frac{\Delta^2}{2} - \frac{\Delta^4}{4} + \frac{\Delta^3}{5} - \dots)$

|||



Click to Save Answer & Move to Next Quest

5:18	Download Mor	e Quizzes Files	From 57%
	VUAnswer.com	n	
×	Quiz vulms.vu.edu.pk	Д	\$ ∶
MC210201944: KAS	HIF RAZA		Time Left 89
итн603 - Numerica	l Analysis (Quiz No.3)	Quiz Start Ti	me: 05:15 PM, 06 February 202
uestion # 4 of 10 (s	tart time: 05:18:26 PM, 06 February 2022)		Total Marks
elect the correct op	tion	1	👩 Reload Math Equations
0	$y = f(x) = \frac{(x - 0.7)(x - 0.9)}{(0.3 - 0.7)(0.3 - 0.9)}(0.518) + \frac{(x - 0.3)(x - 0.5)}{(0.7 - 0.3)(0.7 - 0.5)}(0.518) + \frac{(x - 0.3)(x - 0.5)}{(0.7 - 0.3)(0.7 - 0.5)}(0.518) + \frac{(x - 0.3)(x - 0.5)}{(0.7 - 0.3)(0.7 - 0.5)}(0.518) + \frac{(x - 0.3)(x - 0.5)}{(0.7 - 0.3)(0.7 - 0.5)}(0.518) + \frac{(x - 0.3)(x - 0.5)}{(0.7 - 0.3)(0.7 - 0.5)}(0.518) + \frac{(x - 0.3)(x - 0.5)}{(0.7 - 0.3)(0.7 - 0.5)}(0.518) + \frac{(x - 0.3)(x - 0.5)}{(0.7 - 0.3)(0.7 - 0.5)}(0.518) + \frac{(x - 0.3)(x - 0.5)}{(0.7 - 0.3)(0.7 - 0.5)}(0.518) + \frac{(x - 0.3)(x - 0.5)}{(0.7 - 0.3)(0.7 - 0.5)}(0.518) + \frac{(x - 0.3)(x - 0.5)}{(0.7 - 0.3)(0.7 - 0.5)}(0.518) + \frac{(x - 0.3)(x - 0.5)}{(0.7 - 0.3)(0.7 - 0.5)}(0.518) + \frac{(x - 0.3)(x - 0.5)}{(0.7 - 0.3)(0.7 - 0.5)}(0.518) + \frac{(x - 0.3)(x - 0.5)}{(0.7 - 0.3)(0.7 - 0.5)}(0.518) + \frac{(x - 0.3)(x - 0.5)}{(0.7 - 0.3)(0.7 - 0.5)}(0.518) + \frac{(x - 0.5)}{(0.7 - 0.$	$\frac{9)}{(0.246)} + \frac{(x - 0.3)(x - 0.7)}{(0.9 - 0.3)(0.9 - 0.7)} $	0.067)
0	$y = f(x) = \frac{(x - 0.7)(x - 0.9)}{(0.3 - 0.7)(0.3 - 0.9)}(0.067) + \frac{(x - 0.3)(x - 0.5)}{(0.7 - 0.3)(0.7 - 0.5)}(0.7 - 0.5)(0.7 - 0$	(x = 0.3)(x = 0.7) (0.518) = (x = 0.3)(x = 0.7)	0.248)
0	$y = f(x) = \frac{(x - 0.7)(x - 0.9)}{(0.3 - 0.7)(0.3 - 0.9)}(0.248) + \frac{(x - 0.3)(x - 0.9)}{(0.7 - 0.2)(0.7 - 0.9)}(0.248) + \frac{(x - 0.3)(x - 0.9)}{(0.7 - 0.2)(0.7 - 0.9)}(0.248) + \frac{(x - 0.3)(x - 0.9)}{(0.7 - 0.2)(0.7 - 0.9)}(0.248) + \frac{(x - 0.3)(x - 0.9)}{(0.7 - 0.2)(0.7 - 0.9)}(0.248) + \frac{(x - 0.3)(x - 0.9)}{(0.7 - 0.2)(0.7 - 0.9)}(0.248) + \frac{(x - 0.3)(x - 0.9)}{(0.7 - 0.2)(0.7 - 0.9)}(0.248) + \frac{(x - 0.3)(x - 0.9)}{(0.7 - 0.2)(0.7 - 0.9)}(0.248) + \frac{(x - 0.3)(x - 0.9)}{(0.7 - 0.2)(0.7 - 0.9)}(0.248) + \frac{(x - 0.3)(x - 0.9)}{(0.7 - 0.2)(0.7 - 0.9)}(0.248) + \frac{(x - 0.3)(x - 0.9)}{(0.7 - 0.2)(0.7 - 0.9)}(0.248) + \frac{(x - 0.3)(x - 0.9)}{(0.7 - 0.2)(0.7 - 0.9)}(0.248) + \frac{(x - 0.3)(x - 0.9)}{(0.7 - 0.2)(0.7 - 0.9)}(0.248) + \frac{(x - 0.3)(x - 0.9)}{(0.7 - 0.2)(0.7 - 0.9)}(0.248) + \frac{(x - 0.3)(x - 0.9)}{(0.7 - 0.2)(0.7 - 0.9)}(0.7 - 0.9)}(0.7 - 0.9)(0.7 - 0.9)(0.7 - 0.9)}(0.7 - 0.9)(0.7 - 0.9)(0.7 - 0.9)}(0.7 - 0.9)(0.7 - 0.9)(0.7 - 0.9)(0.7 - 0.9)}(0.7 - 0.9)(0.7 - 0.9)(0.7 - 0.9)}(0.7 - 0.9)(0.7 - 0.9)(0.7 - 0.9)(0.7 - 0.9)(0.7 - 0.9)}(0.7 - 0.9)(0.7 - 0.9)(0.7 - 0.9)(0.7 - 0.9)(0.7 - 0.9)}(0.7 - 0.9)(0.7 - 0.9)(0.7 - 0.9)(0.7 - 0.9)(0.7 - 0.9)}(0.7 - 0.9)(0.7 - 0.9)(0.7 - 0.9)(0.7 - 0.9)(0.7 - 0.9)}(0.7 - 0.9)(0.7 - 0.9)(0.7 - 0.9)(0.7 - 0.9)(0.7 - 0.9)(0.7 - 0.9)}(0.7 - 0.9)(0.7 - 0.$	$\frac{9)}{(0.9)}(0.067) = \frac{(x-0.3)(x-0.7)}{(0.9-0.3)(0.9-0.7)}(0.9)(0.9-0.7)$	0.518)
0	$y = f(x) = \frac{(x - 0.7)(x - 0.9)}{(0.3 - 0.7)(0.3 - 0.9)}(0.067) + \frac{(x - 0.3)(x - 0.9)}{(0.7 - 0.3)(0.7 - 0.9)}$	$\frac{9)}{0.9}(0.248) = \frac{(x-0.3)(x-0.7)}{(0.9-0.3)(0.9-0.7)}(0.9-0.7)$	0.518)
		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	war & Manua ha Mant Duration



<

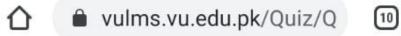
5:17 🗣 🖬	⁴ ^G , ul ul 57% ■
× ▲ Quiz vulms.vu.edu.pk	L % :
MC210201944: KASHIF RAZA	Time Left 88 acc(e)
MTH603 - Numerical Analysis (Quiz No.3)	Quiz Start Time: 05:15 PM, 06 February 2022
Question # 3 of 10 (start time: 05:17:06 PM, 05 February 2022)	Total Marks:
select the correct option	👰 Reload Math Equations
O 39	
O 42	
0 46	
O hone	

|||

<

4:51 PM

4G 35.4 B3





Quiz Start Time: 0

MTH603 - Numerical Analysis (Quiz No.3)

Question # 8 of 10 (Start time: 04:51:31 PM, 06 February 2022)

x	y	1stD.D	2ndD.D	3rdD.D
1	0.7	0.25	0.025	
3	1.2	0.35	-0.0625	a
5	1.9	0.1		
7	2.1			

select the correct option

	-0.0021	
0	-0.0245	
0	-0.0146	
0	-0,0387	

Download More Quizzes Files From

VUAnswer.com

5:16 🔍 🖬	4º ,ıl ,ıl 58% ■
X ■ Quiz vulms.vu.edu.pk	口 ペ :
MC210201944: KASHIF RAZA	Time Left 90
MTH603 - Numerical Analysis (Quiz No.3)	Quiz Start Time: 05:15 PM, 06 February 202
Question # 2 of 10 (start time: 05:16:30 PM, 06 February 2022)	Total Marks
Select the correct option	💽 Reford Mathiliquations
O ²	
0 -2	
0	
	Click to Save Anever & Mave to Next Question

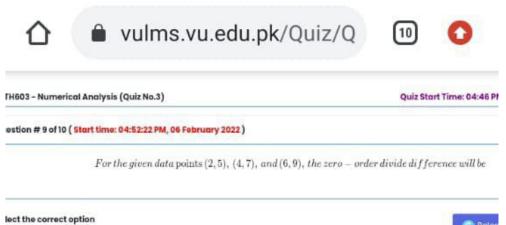
Download More Quizzes Files From

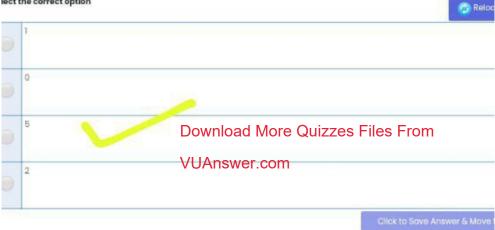
VUAnswer.com

 \bigcirc

<

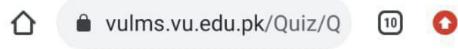






4:49 PM

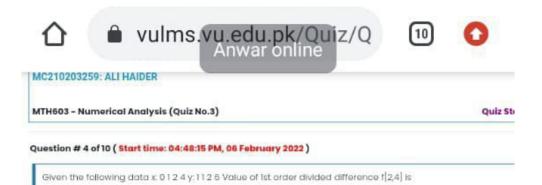
 \triangleleft



Quiz Start Time: 04:46 PM, 06 Fe	.3)	3 - Numerical Analysis (Quiz No.3)	итн603 -
;	I PM, 06 February 2022)	on # 6 of 10 (start time: 04:49:45 PM, 06	uestion
dividedifferencewillbe	lata points $(1, -3)$, $(2, 0)$, and $(3, 15)$, the	For the given data pol	
📀 Reload Math		the correct option	elect the
10 mm		-3	•
		-1	•
		0	•
		-2	0

4:48 PM

1, 4G K/5 BB

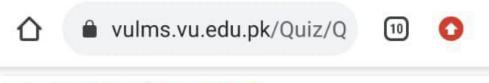


Select the correct option



Click to Se

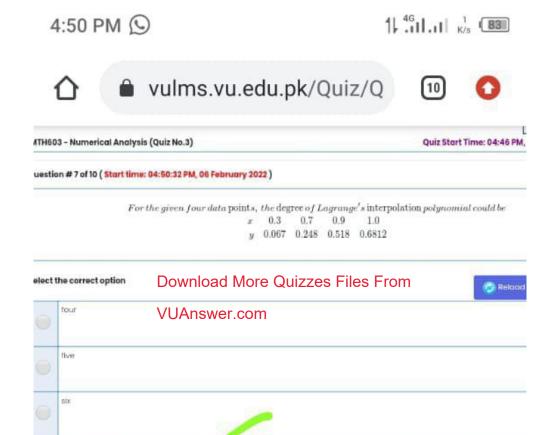
4:49 PM



Question # 5 of 10 (Start time: 04:49:09 PM, 06 February 2022)

In Lagrange's interpolation, for the given five points we can represent the function f(x) by a polynomial of degree

Select the correct option



three

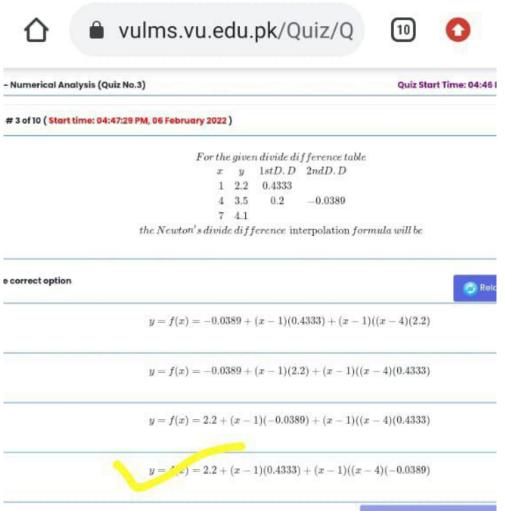
4:46 PM	6 PM
---------	------

 \triangleleft

MC21	10203259: ALI HAIDER	
мтне	303 - Numerical Analysis (Quiz No.3)	Quiz Start Time:
)uesti	tion # 2 of 10 (Start time: 04:46:49 PM, 06 February 2022)	
Lag	grange's interpolation formula is used when the values of the independent varia	ore old
elect	t the correct option	
ielect	Equally spaced	
	Equally spaced	
•	Equally spaced Not equally spaced Constant	

Λ	· 1	7	D	М
-		1		1 1 1

1, 4G



Click to Save Answer & Mov

5	:4	3
-		-

 \equiv

 \bigcirc

 \triangleleft

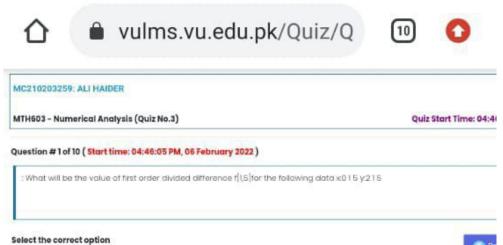


(D	0
	(D

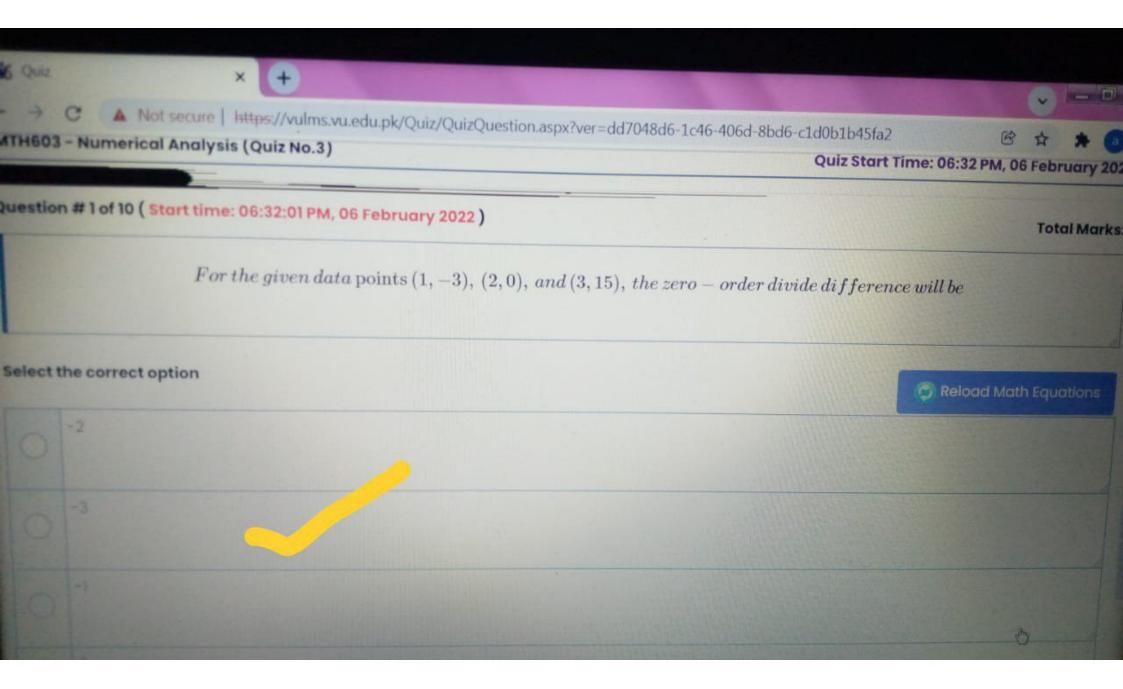
	200645: MUHAMMAD SHEHZAD 3 - Numerical Analysis (quiz No.3)	Quiz start Time: 05:38 PM, 06 February 2022
	n # 8 of 10 (Start time: 05:43:27 PM, 06 February 2022)	Total Marks
	Which of the following method can be used for interpolation for x = 0.3 = 0.7 = 0.9 y = 0.067 = 0.248 = 0.518	the given values of x and y ?
select	he correct option	Reload Math Equations
0	Newton's interpolation formula	
0	Newton's backward difference formula	
0	Newton's forward difference formula	
•	Lagrange's interpolation formula	
		Click to Sove Answer & Move to Next Question

4:46 PM

4G K/5 B4



Select the correct option



F	٠	11	
Э	•	41	



$\hat{\mathbf{D}}$	vulms.vu.edu.pk/Quiz/Q	:D	0
MC210200645: N	IUHAMMAD SHEHZAD		Time Left 88 sec(s)
MTH603 - Numer	ical Analysis (Quiz No.3) Quiz Sta	art Time: 05:38 PM,	
Question # 5 of 10	(Start time: 05:41:47 PM, 06 February 2022)		Total Marks:
Given the follow	ving data x1 3 8 $\gamma2$ 4 9 f(3) can be found by using		
Select the correct	option	- A MARTIN	The second s

select	the correct option	🥏 Reload Math Equations
0	Newton's backward difference interpolation formula	
•	None	
0	Newton's forward difference interpolation formula	
0	Lagrange's interpolation formula	
	Clig	k to Sove Anewer & Move to Next Question

Download More Quizzes Files From

 \bigcirc

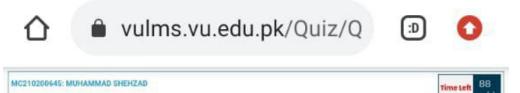
VUAnswer.com

Ξ



 \triangleleft

F		11	
Э	•	41	



MTH603 - Numerical Analysis (Quiz No.3)



Total Marks: |

Question # 4 of 10 (start time: 05:40:57 PM, 06 February 2022)

In Lagrange's interpolation, for the given five points we can represent the function f (x) by a polynomial of degree



-	-	-
-	_	-

 \square

 \triangleleft

	5:44	1	À °4911 ⊡0
٢		vulms.vu.edu.pk/	Quiz/Q 🗊 🚺
	0200645: MUHAMMA 03 - Numerical Analy:		Quiz start Time: 05:38 PM, 06 February 2022
Questi	ion # 9 of 10 (start tim	e: 05:44:00 PM, 06 February 2022)	Total Marks: I
Select	the correct option		Peload Math Equations
0	i		
0	5		
0	2		
	D.		

 \equiv

 \Box

5:40	&I ^{≗46} II ઉ⊡
🗅 🔒 vulms.vu.edu.	pk/Quiz/Q 🗊 🚺
MC210200645: MUHAMMAD SHEHZAD	Time Left 87 sec(s)
MTH603 - Numerical Analysis (Quiz No.3) Question # 3 of 10 (start time: 05:40:16 PM, 06 February 2022)	Quiz Start Time: 05:38 PM, 06 February 2022 Total Marks:
select the correct option	🔗 Rekodd Math Equations
 none 75 	
60 ⁸²	•
69 69	Click to Sove Answer & Move to Next Question

=		
	-	_
	_	_

5:39		& ^{⊧4} 61 (31)
	/ulms.vu.edu.pk/Qu	iz/Q 🗊 🚺
MC210200645: MUHAMMAD SHE	HZAD	Time Left 84 sec(s)
MTH603 - Numerical Analysis (Qu	iiz No.3)	Quiz Start Time: 05:38 PM, 06 February 2022
Question # 2 of 10 (start time: 05:1	19:09 PM, 06 February 2022)	Total Maries:
elect the correct option	Download More Quizze	es Files From
(i) (i)		
e nt.		
• ⁿ⁺²		
• ⁿ		
		Click to Save Antwir & Move to Next Question

 \triangleleft

5:42			& °49µ
	â vuln	ns.vu.edu.p	k/Quiz/Q 🗊 🚺
MC210200645:	MUHAMMAD SHEHZAD		Time Left 89 sec(s)
MTH603 - Nume	rical Analysis (Quiz No.3)		Quiz Start Time: 05:38 PM, 06 February 2022
Question # 6 of 1	0 (start time: 05:42:25 PM, 0	6 February 2022)	Total Marks:
select the correc	toption		🌍 Periodid Math Equations
• °			
• ²			
• •	>/		

Click to Sove Answer & Move to Heixt Question



r

🛜 🖸 📶 📶 57% 🛑 5:35 pm

vulms.vu.edu.pk/Quiz/Q

1:

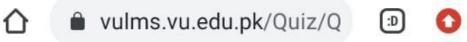
Question # 8 of 10 (Start time: 05:35:01 PM, 06 February 2022)

x	y	1stD.D	2ndD.D	3rdD.D
1	0.4	0.25	0.0375	-0.0104
3	0.9	0.4	a	
5	1.7	0.3		
7	2.3			



Click to Save Ansv

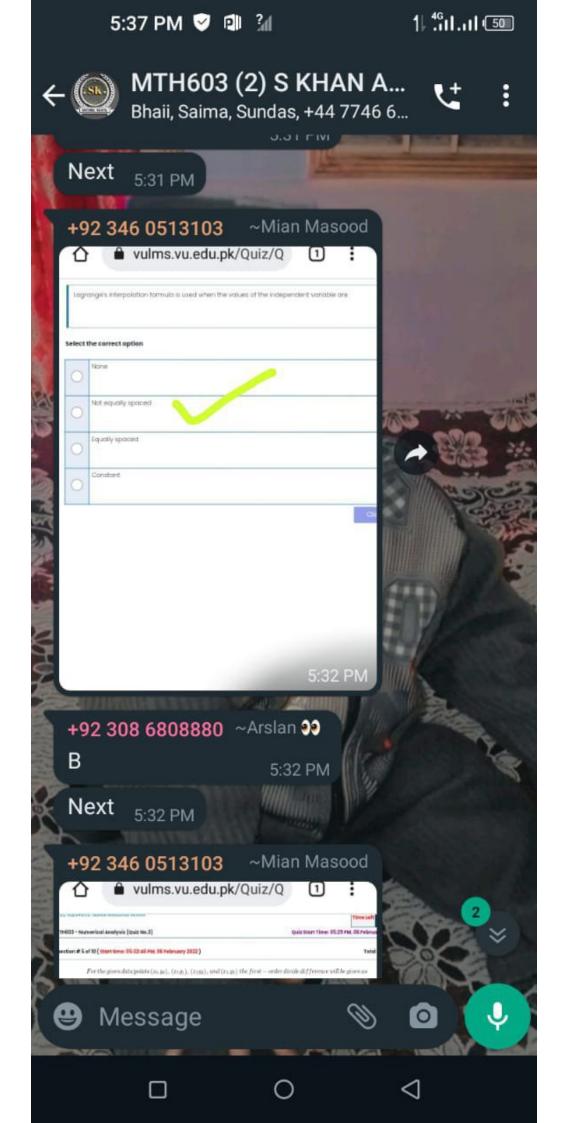
5:38



AC210200645: I	MUHAMMAD SHEHZAD	Time Left B8 sec(s)
ITH603 - Nume	rical Analysis (Quiz No.3)	Quiz start Time: 05:38 PM, 06 February 202
uestion #1 of 10	(start time: 05:38:40 PM, 06 February 2022)	Total Marks
	The first divide difference $y[x_0, x$	1] can be given as
elect the correc	t option	😥 Reload Math Equations
0	$\frac{\nabla y_1}{h}$	
•	$\frac{y_1 - y_0}{x_1 - x_0}$	
• ^{×I}		
	$\frac{\Delta y_{h}}{h}$	

 \triangleleft

 \bigcirc



9	8	اند الد 🖬 🗟	58%		5:32	pm
		vulms.vu.edu.pk/Quiz/0	Q	1)	:
62 10207070, HILPO	* 101-54-00	2 INLININ				Time Left

TH603 - Numerical Analysis (Quiz No.3)

Quiz Start Time: 05:29 PM, 06 Februa

Total

restion # 5 of 10 (start time: 05:32:46 PM, 06 February 2022)

For the given data points (x_0, y_0) , (x_1y_1) , (x_2y_2) , and (x_3, y_3) the first – order divide difference will be given as

lect the correct option		🥏 Reload Math Equa
C	$y[y_0,y_1,y_2]$	
)	$y[x_0]$	1
С	$y[x_0, x_1]$	8
с С	$y[x_0,x_1,x_2]$	
	c	lick to Save Answer & Move to Next Ques

vulms.vu.edu.pk/Quiz/Q

1:

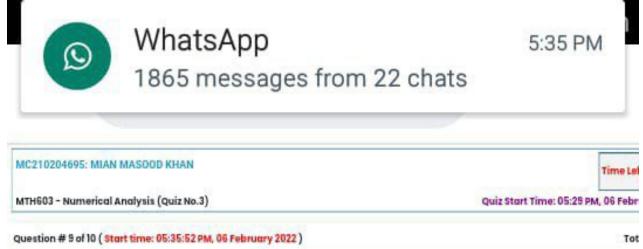
TH603 - Numerical Analysis (Quiz No.3)

Quiz Start Time: 05:29 PM, 06 F

Jestion # 10 of 10 (Start time: 05:36:46 PM, 06 February 2022)

Which of the following method can be used for interpolation for the given values of x and y? x = 3 = 4 = 6y = 0.067 = 0.248 = 0.518

lect	the correct option	😔 Reload Mat
0	Newton's interpolation formula	
0	Newton's backward difference formula	
С	Lagrange's interpolation formula	
0	Newton's forward difference formula	
-		Click to Save Answer & Move to Nex



For the given data points (1, -3), (2, 0), and (3, 15), the first – order divide difference will be



🛱 🗋 📶 📶 58% 🖬 5:32 pm



vulms.vu.edu.pk/Quiz/Q

1:

Lagrange's interpolation formula is used when the values of the independent variable are

Select the correct option

0	None
0	Not equally spaced
0	Equally spaced
0	Constant

C





vulms.vu.edu.pk/Quiz/Q

1:

juestion # 3 of 10 (Start time: 05:31:12 PM, 06 February 2022)

In Lagrange's interpolation, for the given five points we can represent the function f (x) by a polynomial of degree

elect the correct option





🛜 🗋 📶 📶 57% 🛢 5:33 pm

vulms.vu.edu.pk/Quiz/Q

1:

Question # 6 of 10 (start time: 05:33:28 PM, 06 February 2022)

Given the following data x1 2 5 y.1 4 10 Value of 1st order divided difference f[2, 5] is

Select the correct option	
○ ⁻²	
0	
0	

Click to So

5:22 🔤	4 ⁶ .대 .대 56% 💼
× Quiz vulms.vu.edu.pk	口 ペ :
MC210201944: KASHIF RAZA	Time Left 89 sec(s)
MTH603 - Numerical Analysis (Quiz No.3)	Quiz Start Time: 05:15 PM, 06 February 2022
Question # 9 of 10 (Start time: 05:22:37 PM, 06 February 2022)	Total Marks:
Select the correct option	💿 Reload Math Equations
O ⁺³	
0 -2	
0	
0 3	

Click to Save Answer & Move to Next Question

<

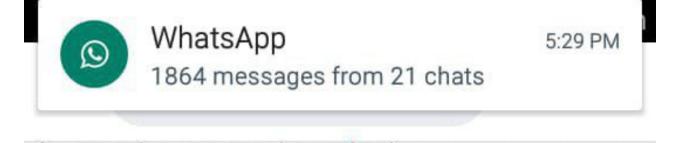


vulms.vu.edu.pk/Quiz/Q

:

1

80 MC210204095: MIAN MASOOD KHAN Time Left sec s MTH603 - Numerical Analysis (Quiz No.3) Quiz Start Time: 05:25 FM, 06 February 2022 Question # 2 of 10 (Start time: 05:20:21 PM, 06 February 2022) Total Marks: | For the given data points (x_1, y_0) , (x_1y_1) , (x_2y_2) , and (x_1, y_1) the second – order divide difference will be given as Select the correct option 👩 Reload Math Equations $y[x_0, x_1]$ 0 $y[x_0, x_1, x_2]$ $y[x_0]$ $y[x_0, x_1, x_2, x_3]$



If any ten data points are given, the degree of Lagrange's interpolation polynomial could be

select the correct option



Click to Sa

Total Mark	me: 05:28:44 PM, 06 February 2022)	uestion #10 of 10 (start ti
	a polynomial $P_{a}(x)$ of degree in then the error is given by	if $\boldsymbol{\gamma}(\boldsymbol{x})$ is approximated by
👰 Reload Math Equations		elect the correct option
	$arepsilon(x)=y(x)+P_n(x)$	0
	$arepsilon(x)=y(x)\ imes\ P_n(x)$	0
	$arepsilon(x)=y(x) \ \div \ P_n(x)$	0
	$arepsilon(x)=y(x)-P_n(x)$	0

MTH603 - Numerical Analysis (Quiz No.3)

Quiz Start Time: 06:19 PM, 06 February 2022

Total Marks: 1

Question # 9 of 10 (Start time: 06:27:43 PM, 06 February 2022)

 $For the given \, data \, {\rm points} \, (4,2.2), \, (8,3.5), \, and \, (12,4.1) \, the \, divide \, difference \, table \, will \, be \, given \, as$

elect the correct option					Reload Math Equations
	x	y	1stD.D	2ndD.D	
0	4	2.2	0.325		
	8	3.5	0.15	-0.098	
	12	4.1			
	x	<i>y</i>	1stD.D	2ndD.D	
	4	2.2	0.325		
	8	3.5	0.15	-0.0219	
	12	4.1			
	x	y	1stD.D	2ndD.D	
	4	2.2	0.325		
	8	3.5	0.15	-0.0108	
	12	4.1			
	x	y	1stD.D	2ndD.D	
0	4	2.2	0.325		
	8	3.5	0.15	-0.065	
	12	4.1	1 11277201		
		_			

5:	5:24 🖬 4º .il			
×	Quiz vulms.vu.edu.pk	ር ペ :		
are puer a a	944: KASHIF RAZA Iumerical Analysis (quiz No.3)	Quiz Start Time: 05:15 PM, 06 February 2022		
MARCONSTRUCT	10 of 10 (start time: 05:23:58 PM, 06 February 2022)	Total Marks:		
	If only two data points are given, the formula for Lagran	ge's interpolation polynomial will be		
select the c	orrect option	Road Math Equations		
0	$y = f(x) = \frac{(x - x_1)}{(x_0 - x_1)}y_0 + \frac{1}{2}$	$\frac{(x-x_0)}{(x_1-x_0)^{y_1}}$		
0	$y = f(x) = \frac{(x - x_0)}{(x_1 - x_0)^2} y_0 + c$	$(x - x_1)$ $(x_0 - x_1)^{y_1}$		
0	$y = f(x) = \frac{(x - x_0)}{(x_0 - x_1)} y_0 + 0$	$\frac{(x - x_1)}{(x_1 - x_0)^2} y_1$		
0	$y = f(x) = \frac{(x_1 - x_0)}{(x - x_0)}y_0 + \frac{1}{(x - x_0)}y_0$	$(x_0 - x_1) (x - x_1)^{y_1}$		

Download More Quizzes Files From

VUAnswer.com

Ш

<

uestion # 6 of 1	0 (Start time: 06:24:28 PM, 06 February 2022)	Total Marks
	For the given data points $(4, 45)$, $(5, 104)$, and $(6, 190)$,	$the {\it first}-order divide difference will be$
elect the correc	t option	🕞 Reload Math Equations
O B2		
0 29		
0 76		

MTH603 - Numerical Analysis (Quiz No.3)	Quiz Start Time: 06:19 PM, 06 February 2022
uestion # 8 of 10 (Start time: 06:26:41 PM, 06 February 2022)	Total Marks: 1
: What will be the value of first order divided difference $f[1,5] for the following data$	x015y215
elect the correct option	😥 Reload Math Equations
0	
○ ²	
· · · · · · · · · · · · · · · · · · ·	
	Click to Save Answer & Move to Next Question

MTH603 - Numerical Analysis (Quiz No.3)	Quiz Start Time: 06:19 PM, 06 February 2022
Question # 7 of 10 (Start time: 06:25:29 PM, 06 February 2022)	Total Marks:
Given the following data x0.1.4 y/2.1.4 Value of first order divided difference $\gamma[0,1]$ is	
Select the correct option	Seload Math Equations
O -t	
0 2	
0 -2	
	Click to Sove Answer & Move to Next Cuestion

Question # 5 of 10 (Start time: 06:23:	06 PM, 06 February 2022)	Total Marks
Given the following data ± 0.14 8 yr	1.8 16 Value of 1st order divided difference $f(4,8)$ is	
elect the correct option	Download More Quizzes Files	From Reload Math Equations
0	VUAnswer.com	
0 2		
0		
0		

Quiz Start Time: 06:19 PM, 06 February 2022

Total Marks: 1

MTH603 - Numerical Analysis (Quiz No.3)

Question # 3 of 10 (start time: 06:22:09 PM, 06 February 2022)

For the given data points (2, 0.3), (4, 1), and (6, 1.2) the divide difference table will be given as

Select the correct option					🧑 Reload Math Equations
	x	y		2ndD. D	
0	2		-0.0625		
	4		0.1	0.35	
	6	1.2			
	x	y	1stD.D	2ndD. D	
0	2	0.3	0.1		
0			-0.0625	0.35	
		1.2			
	x	y	1stD.D	2ndD. D	
0			-0.0625		
O	4			0.1	
		1.2			
	x	y	1stD.D	2ndD. D	
0	2	- IT			
0	4		0.1	-0.0625	
	6	1.2	1000		
		1.222			

Click to Save Answer & Move to Next Question

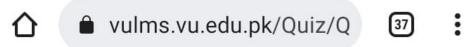
Total Marks	06:20:22 PM, 06 February 2022)	MTH603 - Numerical Analysis
	the given data points $(2, 5)$, $(4, 7)$, and $(6, 9)$, the ze	
	Download More Quizzes F	elect the correct option
	VUAnswer.com	0
		0 2
		0
		0 °

tart Time: 06:35 PM, 06 February 202	Quiz St	3 - Numerical Analysis (Quiz No.3)
Total Marks		on #1 of 10 (start time: 06:35:07 PM, 06 February 2022)
	divide difference table	For the give
	1stD. D 2ndD. D	x y
	0.4333	
	0.2 -0.0389	4 3.5
		7 4.1
	ence interpolation formula will be	the Newton's divide diff
		the correct option
Reload Math Equations		
	(-0.0389) + (x - 1)((x - 4)(0.4333))	y = f(x) = 2.2 + (x - x)

0	y = f(x) = -0.0389 + (x - 1)(0.4333) + (x - 1)((x - 4)(2.2)
0	$\dot{y} = f(x) = 2.2 + (x - 1)(0.4333) + (x - 1)((x - 4)(-0.0389))$
0	y = f(x) = -0.0389 + (x - 1)(2.2) + (x - 1)((x - 4)(0.4333)

Click to Save Answer & Move to Next Question

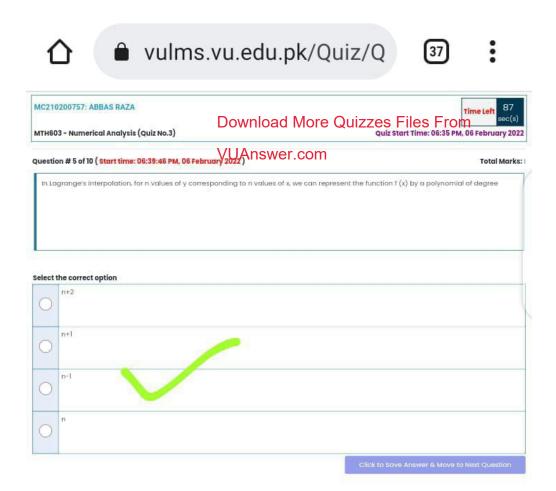
6:45 PM



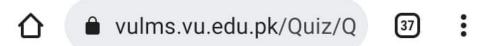
MC210200757: ABBAS RAZA						Time Left 78
MTH603 - Numerical Analysis (Q	uiz No.3)				Quiz Start Time: 06:35 PM	, 06 February 202
Question # 10 of 10 (<mark>Start time: 0</mark>	5:44:57 PM, 06 February 2022)					Total Marks
For the giv	en data points (4, 1.3), (8, 1.5	i), an	d(12, 1.9)	the divide difj	ference table will be given as	
elect the correct option					🧔 Reloa	i Math Equations
	x	v	1stD.D	2ndD, D		
0	4	1.3	0.1			
0	8	1.5	0.0062	0.05		
	12	1.9				
	x	y	1stD.D	2ndD, D		
0	4	1.3	0.1			
	8	1.5	0.35	0,0062		
	12	1.9				
	x	y	1stD.D	2ndD.D		
0	4	1.3	0.0062			
	8	1.5	0.1	0.05		
	12	1.9				
	x	у	1stD.D	2ndD, D		
0	4	1.3	0.05		100 m	
0	8	1.5	0.1	0.0062		
		1.9				

MTH603 - Numerical Analysis	(Quiz No.3)	Quiz Start Time: 06:19 PM, 06 February 2022
Question #1 of 10 (start time:	06:19:34 PM, 06 February 2022)	Total Marks:
Lagrange's interpolation for	nula is used when the values of the independent variable are	
select the correct option	Download More Quizzes	S Files From Reload Math Equations
Constant	VUAnswer.com	
O Not equally spaced		
O None		
C Equally spaced		
		Clicit to Save Answer & Move to Next Question

6:39 PM

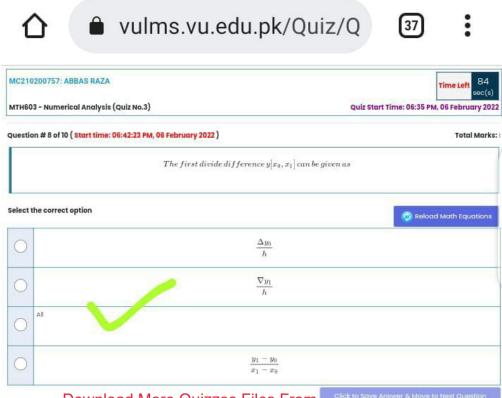


6:43 PM



MC210200757: ABBAS RAZA		Time Left 88
MTH603 - Numerical Analysis	s (Quiz No.3)	Quiz Start Time: 06:35 PM, 06 February 2022
Question # 9 of 10 (<mark>Start time</mark>	: 06:43:47 PM, 06 February 2022)	Total Marks
	If only two data points are given, the formula for Lagrange's	interpolation polynomial will be
Select the correct option		Reload Math Equations
0	$y = f(x) = \frac{(x - x_0)}{(x_0 - x_1)^y} y_0 + \frac{(x - x_0)}{(x_1 - x_0)^2} y_0$	$x_1 y_1 y_2$
0	$y = f(x) = \frac{(x - x_0)}{(x_1 - x_0)^2} y_0 + \frac{(x - x_0)^2}{(x_0 - x_0)^2} y_0 + \frac{(x - x_0)^2}{(x_0$	x ₁) x ₁ y ₁
0	$y = f(x) = \frac{(x - x_1)}{(x_0 - x_1)^2} y_0 + \frac{(x - x_1)^2}{(x_1 - x_1)^2} y_0 + \frac{(x - x_1)^2}{(x_1$	$(x_0)^{y_1}$
0	$y = f(x) = \frac{(x_1 - x_0)}{(x - x_0)^2 y_0} + \frac{(x_0 - x_0)^2}{(x - x_0)^2 y_0} + \frac{(x_0 - x_0)^2}{(x - x_0)^2} + (x_0 - x_$	x_1) y_1 y_1
		Click to Save Answer & Move to Next Question

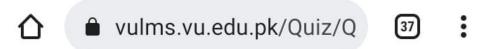
6:42 PM



Download More Quizzes Files From

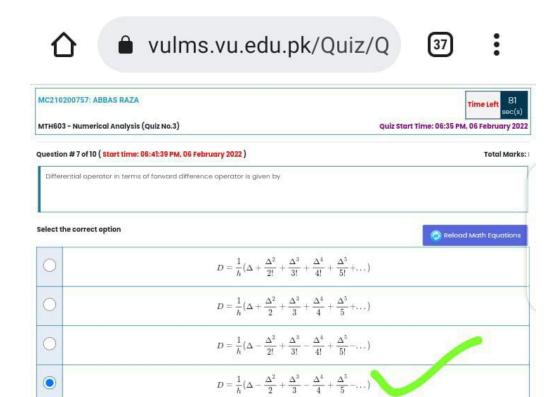
VUAnswer.com

6:40 PM



ATTH603 - Numerical Analysis (Quiz No.3) Luestion # 6 of 10 (Start time: 06:40:49 PM, 06 For the given four of elect the correct option three five	lata points, t	the degree	0.7 (.9	1.0		ial could be	PM, 06 February 20 Total Mark
For the given four of elect the correct option	lata points, t	the degree	0.7 (.9	1.0	lation <i>polynom</i>		
elect the correct option	x	0.3	0.7 (.9	1.0	lation <i>polynom</i>		ad Math Equations
O three							C Rela	ad Math Equations
O three	y .	0.067 0	.248 0,	516	0.0812		C Relo	ad Math Equations
O three	/	-					👩 Relo	ad Math Equations
O three							🕝 Relo	ad Math Equation:
•							- Hours	
•								
five								
five								
four								
0								
⊖ ^{six}								
				_		- Antonio Contra		e to Next Question

6:41 PM



Click to Save Answer & Move to Next Question

MTH603 - Numerical Analysis (Quiz No.3)

Quiz Start Time: 06:35 PM, 06 February 2022

Total Marks:

Question # 2 of 10 (start time: 06:36:34 PM, 06 February 2022)

 ${\it If any three data points are given, the formula for Lagrange's interpolation polynomial will be}$

Select the correct option

and an an an art of a set		C Reload Math Equations
0	$y = f(x) = \frac{(x_0 - x_1)(x_0 - x_2)}{(x - x_1)(x - x_2)}y_0 + \frac{(x_1 - x_0)(x_1 - x_2)}{(x - x_0)(x - x_2)}y_1 + \frac{(x_2 - x_0)(x_2 - x_1)}{(x - x_0)(x - x_1)}y_2$	
0	$y = f(x) = \frac{(x - x_1)(x - x_2)}{(x_0 - x_1)(x_0 - x_2)}y_2 + \frac{(x - x_0)(x - x_2)}{(x_1 - x_0)(x_1 - x_2)}y_1 + \frac{(x - x_0)(x - x_1)}{(x_2 - x_0)(x_2 - x_1)}y_0$	
0	$y = f(x) = \frac{(x - x_1)(x - x_2)}{(x_1 - x_0)(x_1 - x_2)}y_0 + \frac{(x - x_0)(x - x_2)}{(x_0 - x_1)(x_0 - x_2)}y_1 + \frac{(x - x_0)(x - x_1)}{(x_2 - x_0)(x_2 - x_1)}y_2$	
0	$y = f(x) = \frac{(x - x_1)(x - x_2)}{(x_0 - x_1)(x_0 - x_2)}y_0 + \frac{(x - x_0)(x - x_2)}{(x_1 - x_0)(x_1 - x_2)}y_1 + \frac{(x - x_0)(x - x_1)}{(x_2 - x_0)(x_2 - x_1)}y_2$	

Click to Save Answer & Move to Next Questi

MTH603 - Numerical Analysis (Quiz No.3)			Quiz Start Time: 06:3	5 PM, 06 February 2022
Question #1 of 10 (<mark>Start time: 06</mark>	:35:07 PM, 06 February 2022)				Total Marks:
	For the s	iven dividi	difference table		
	A CONTRACTOR OF		D 2ndD.D		
		2.2 0.433			
			-0.0389		
	the Newton's divide of				
elect the correct option	y = f(x) = 2.2 + (x)	(- 1)(- 0.0	(389) + (x - 1)((x - 4)	- 77. A.M.	eload Math Equations
0	y = f(x) = 0.03	89 + (x - 1	(0.4333) + (x - 1)((x	- 4)(2.2)	/
0	y = f(x) = 2.2 + (x)	(~ 1)(0.433	3) + (x - 1)((x - 4)(-	0.0389)	
0	y = f(x) = -0.03	89 + (x - 1)	(2.2) + (x - 1)((x - 4))	(0.4333)	

Click to Save Answer & Move to Next Question

MTH603 - Numerical Analysis (Quiz No.3)	Quiz Start Time: 06:35 PM, 06 February 2022
Question # 3 of 10 (start time: 06:38:07 PM, 06 February 2022)	Total Marks:
In Lagrange's interpolation, for the given five points we can represent the t	(unction f (x) by a polynomial of degree

