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MC180400735: SADAQAT IQBAL AHMED

MTH632:Grand Quiz

Time Left 80 sec(s)

Total Marks: 1

Quiz Start Time: 09:57 AM, 02 July 2020

Question # 30 of 30 (Start time: 10:10:49 AM, 02 July 2020)

A function V is said to be harmonic if and only if _____.

Select the correct option

Reload Math Equations

- $V_x + V_y = 0$
 - $V_{xy} + V_{yx} = 0$
 - $V_{xx} + V_{yy} = 0$ Correct
- $V_x^2 + V_y^2 = 0$















correct

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Reload Math Equations

Quiz Start Time: 09:57 AM, 02 July 2020

Question # 28 of 30 (Start time: 10:09:46 AM, 02 July 2020)

Total Marks: 1

If $f(z)=z^2$, then f(x+iy)=_____.

Select the correct option

$x^2 + y^2 - 2xyi$

 $x^2 - y^2 + 2xyi$

$$x^2 + y^2i - 2xyi$$

$$x^2 - y^2i - 2xyi$$

0

















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Time Left 78 sec(s)

Quiz Start Time: 09:57 AM, 02 July 2020

Total Marks: 1

Question # 23 of 30 (Start time: 10:08:01 AM, 02 July 2020)

Given a complex - valued function s(t), a rotation by an angle $\frac{\pi}{3}$ is given by ______.

Select the correct option $e^{\frac{3r}{4}}s(t)$

















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Question # 20 of 30 (Start time: 10:07:02 AM, 02 July 2020)

Total Marks: 1

If f approaches two complex numbers $L_1 \neq L_2$ for two different curves or paths through z_0 then the $\lim_{z \to z_0} f(z)$ ______.

Select th	e correct option	Reload Math Equations
0	exists	
0	does not exist	

Oliskia Sava Answer & Movera Next Questio















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Quiz Start Time: 09:57 AM, 02 July 2020

Question # 17 of 30 (Start time: 10:05:51 AM, 02 July 2020)

Total Marks: 1

The Cauchy - Riemann equations on a pair of real - valued functions of two real variables u(x, y)and v(x, y) are $U_x = V_y$ and ______.

Select the correct option

Reload Math Equations

- $oxed{U_y = -V_y}$
 - $U_x = -V_x$
 - $U_y = -V_x$

correct

 $U_x = -V_y$

0

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Time Left 85 sec(s) Quiz Start Time: 09:57 AM, 02 July 2020

Total Marks: 1

Question # 15 of 30 (Start time: 10:04:47 AM, 02 July 2020)

Let z = 1 + i, then arg(z) = _____.

Select th	e correct option
0	2π/4
0	3π/4
0	4π/4
0	correct

















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Time Left 84 sec(s)

Quiz Start Time: 09:57 AM, 02 July 2020

Question # 14 of 30 (Start time: 10:04:05 AM, 02 July 2020)

Total Marks: 1

$$\lim_{(x,y)\to \{1,2\}} 3xy^2 - y = \underline{\hspace{1cm}}$$

Select the correct option	
0 8	
0	
O 10	correct
0 11	

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Quiz Start Time: 09:57 AM, 02 July 2020

Question # 11 of 30 (Start time: 10:01:19 AM, 02 July 2020)

Total Marks: 1

Product of complex numbers (3 + 2i) and (1+7i) is _

Select the correct option

3+9i 0 4+9i 0 -11+23i correct 0 3+14i 0



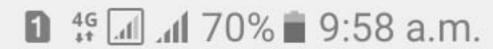














Click to Save Answer & Move to Next Question

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Time Left 83 sec(s)

Quiz Start Time: 09:57 AM, 02 July 2020

Question # 3 of 30 (Start time: 09:58:04 AM, 02 July 2020)

Total Marks: 1

Let z = 7 i, then arg(z) = _____.

Select the correct option

T/4

T/2

COTTECT

T/3

T/6

























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Quiz Start Time: 09:57 AM, 02 July 2020

Question # 2 of 30 (Start time: 09:57:21 AM, 02 July 2020)

Total Marks: 1

By definition, $\lim_{z \to z_0} f(z) = L$ means that for every $\varepsilon > 0$ there exists a $\delta > 0$ such that

Select the correct option		Reload Math Equations
0	$\left f\left(z\right) -L\right <\varepsilon$ whenever $0<\left z-z_{0}\right <\delta$	correc
0	$ f(z)-z_0 whenever 0< z-L <\delta$	
0	$ f(z)-L <\delta$ whenever $0< z-z_0 $	
	$ f(z)-z_0 <\delta$ whenever $0< z-L $	













(i) quiz.vu.edu.pk/QuizQuestion



MC180402031: SALEHA WAHEED

MTH632:Grand Quiz

Quiz Start Time: 07:02 AM, 02 July 2020

Question # 17 of 30 (Start time: 07:12:19 AM, 02 July 2020)

Total Marks: 1

Suppose that $\lim_{z \to z_0} f(z) = A$ and $\lim_{z \to z_0} g(z) = B$, then choose the correct option.

Select	me	COL	ect	option	



		Reload Math Equations
0	$\lim_{z \to z_0} [f(z) + g(z)] = A + B$	correct
0	$\lim_{z\to z_0}[f\left(z\right)+g\left(z\right)]=A-B$	
0	$\lim_{z \to z_0} [f(z) + g(z)] = A \cdot B$	
0	$\lim_{z \to z_0} [f(z) + g(z)] = \frac{A}{B}$	

DRA AKRAM

Quiz Start Time: 96:331

Start time: 06:37:30 PM, 01 July 2020)

The function $u(x,y) = \frac{xy}{x^2 + y^2}$ does not have a limit when

option

$$(x,y)\to (1,1)$$

$$(x,y) \to (0,1)$$

$$(x,y) \rightarrow (1,0)$$

$$(x,y)\to(0,0)$$

correct

Quiz Start Time: 06:35 PM, 01 July 2020

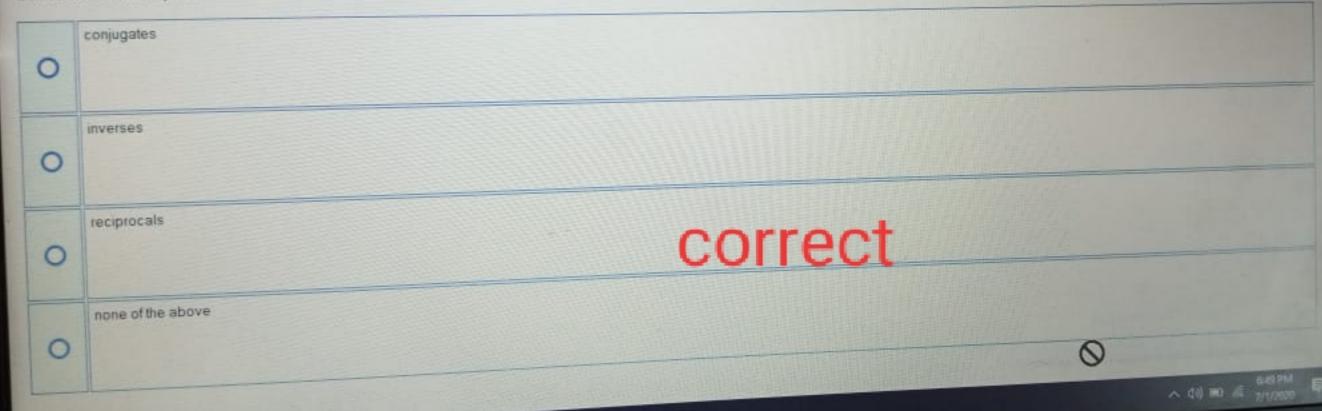
Question # 23 of 30 (Start time: 06:48:57 PM, 01 July 2020)

Total Marks: 1

If two complex - valued functions f and g satisfy conditions g(f(z)) = z and f(g(w)) = w, then these functions are _____ of each other.

Select the correct option









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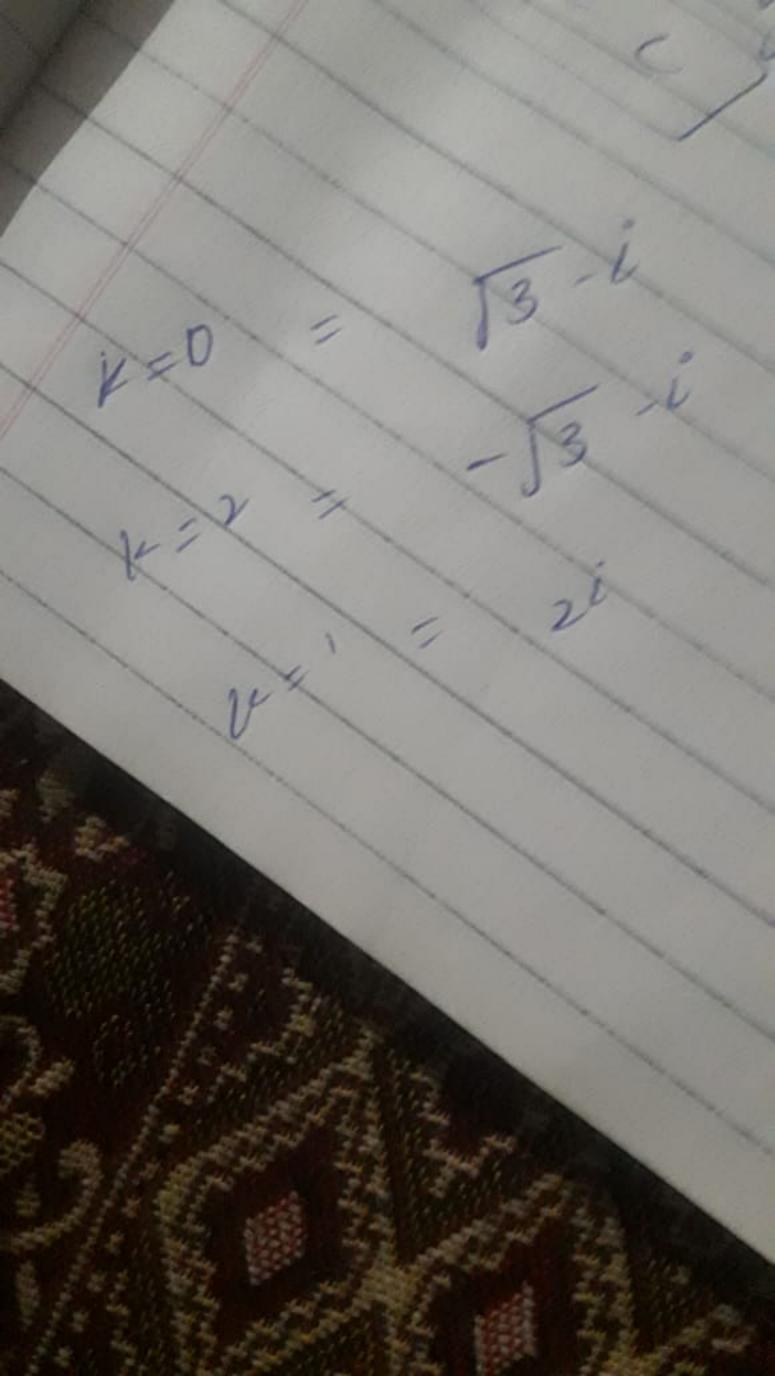
	201604: AZKA SALOMI 2:Grand Quiz	Quiz Start Time: 05:04 PM, 01 July 2020
Question	# 17 of 30 (Start time: 05:11:02 PM, 01 July 2020)	Total Marks: 1
	omplex-valued linear transformation is always ire complex plane.	on the
Select th	ne correct option	
0	only one-to-one	
0	only onto	
0	one-to-one and onto COTI	rect
0	none of the above	







Quiz Start Time: 11:50 AM, 01 July 2020 Question # 5 of 30 (Start time: 11:53:51 AM, 01 July 2020) In the complex valued function z = x - iy, the value of $S\{U_x\} = LLLLLLLL$ Total Marks: 1 Select the correct option Reload Math Equations 0 0 correct 0



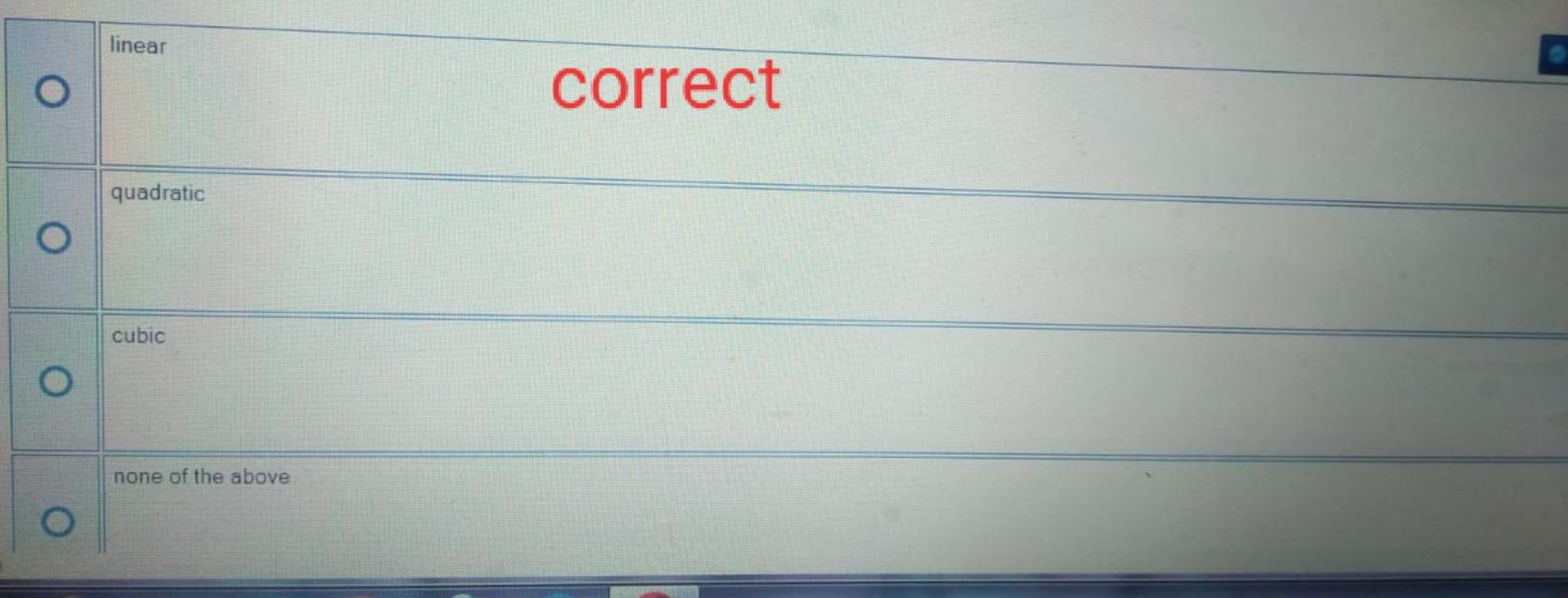
Question # 17 of 30 (Start time: 11:19:18 AM, 01 July 2020)

A complex-valued function of the form

where

$$L\left(z\right) =Az+B,$$

Select the correct option



Ques	tion # 14 of 30 (Start time: 10:19:55 AM, 01 July 2020)
A cor	nnected open set is called a
Select	the correct option
	domain
0	Oorroot
	correct
	range
0	
	
_	closed set
0	
	unbounded set
0	
6	

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MC1804	402225: ASMA BILAL				
MTH632	2:Grand Quiz				Quiz St
	n # 18 of 30 (Start time: 09:49:03 AM, 01 July 20:	20)			
	mplex number number of roots.	$(4i)^4$			
Select th	ne correct option				
0	1				
0	2				
0	3				
0	4 C	orrect			
				Click to S	ave Ann

9:50 AM

361 4461



IVIC 10040ZZZJ. AJIVIA BILAL

MTH632:Grand Quiz

Question # 12 of 30 (Start time: 09:44:20 AM, 01 July 2020)

Let z = 3, then arg(z) = _____.

Select the correct option

0	0 degree correct
0	60 degree
0	90 degree
0	270 degree

0

0

Rotation curve

Cick to Sans Atlanta & More In Real Durette

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MTH632:Grand Quiz

Question # 10 of 30 (Start time: 09:41:15 AM, 01 July 2020)

If $-8i = 8 \exp[i(-\pi/2+2k\pi)]$, then the root of

 $(-8i)^{1/3}$

for k=1 is ______.

Select the correct option

-2i

C		3i
C		-3i
C)	correct

elect the correct option

125

If
$$f(z) = z^3$$
, $g(z) = z + 2$, then $g(f(5)) =$

Reload Math Equations

127

correct























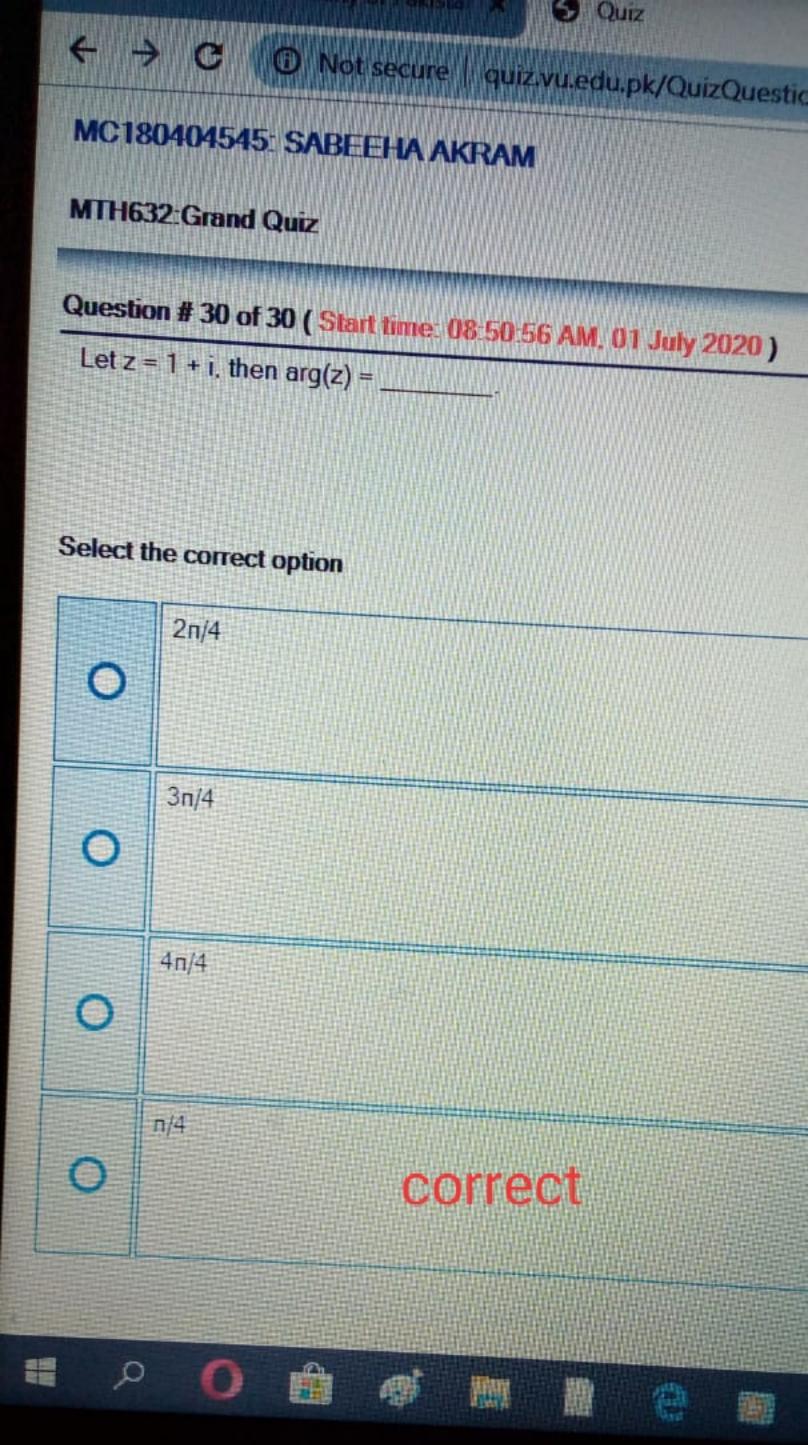


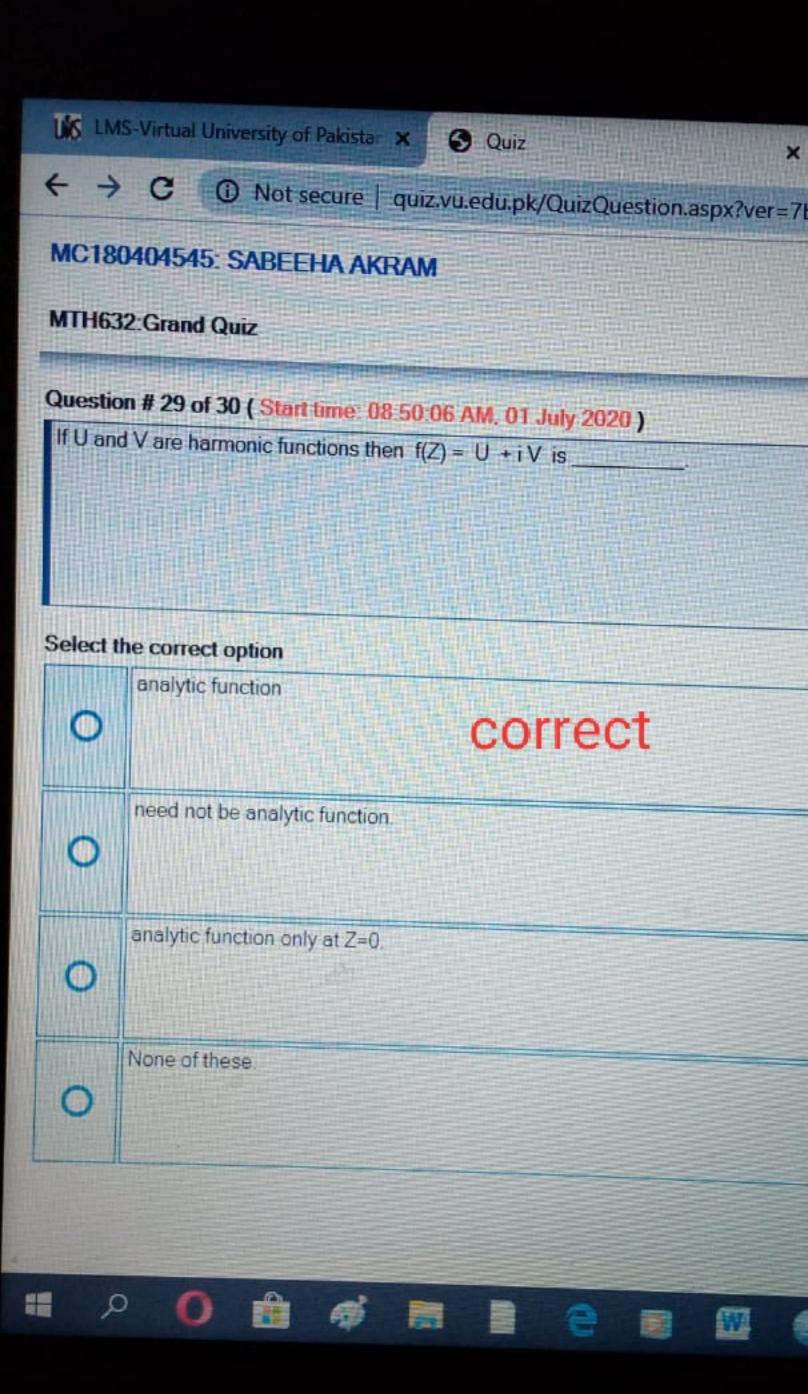


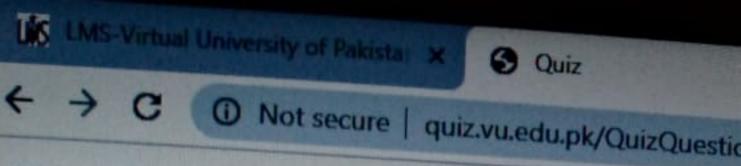




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MC180404545: SABEEHA AKRAM

MTH632:Grand Quiz

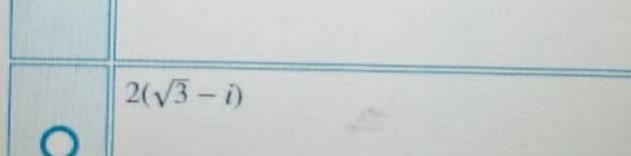
Question # 6 of 30 (Start time: 08:18:36 AM, 01 July 2020)

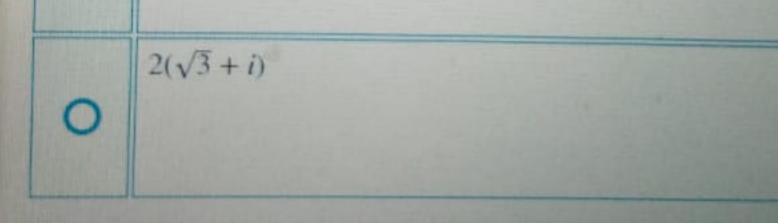
If $-8i = 8 \exp[i(-n/2+2kn)]$, then the root of

for k=0 is _____

Select the correct option

0	$\sqrt{3}-i$	correct
	$\sqrt{3}+i$	













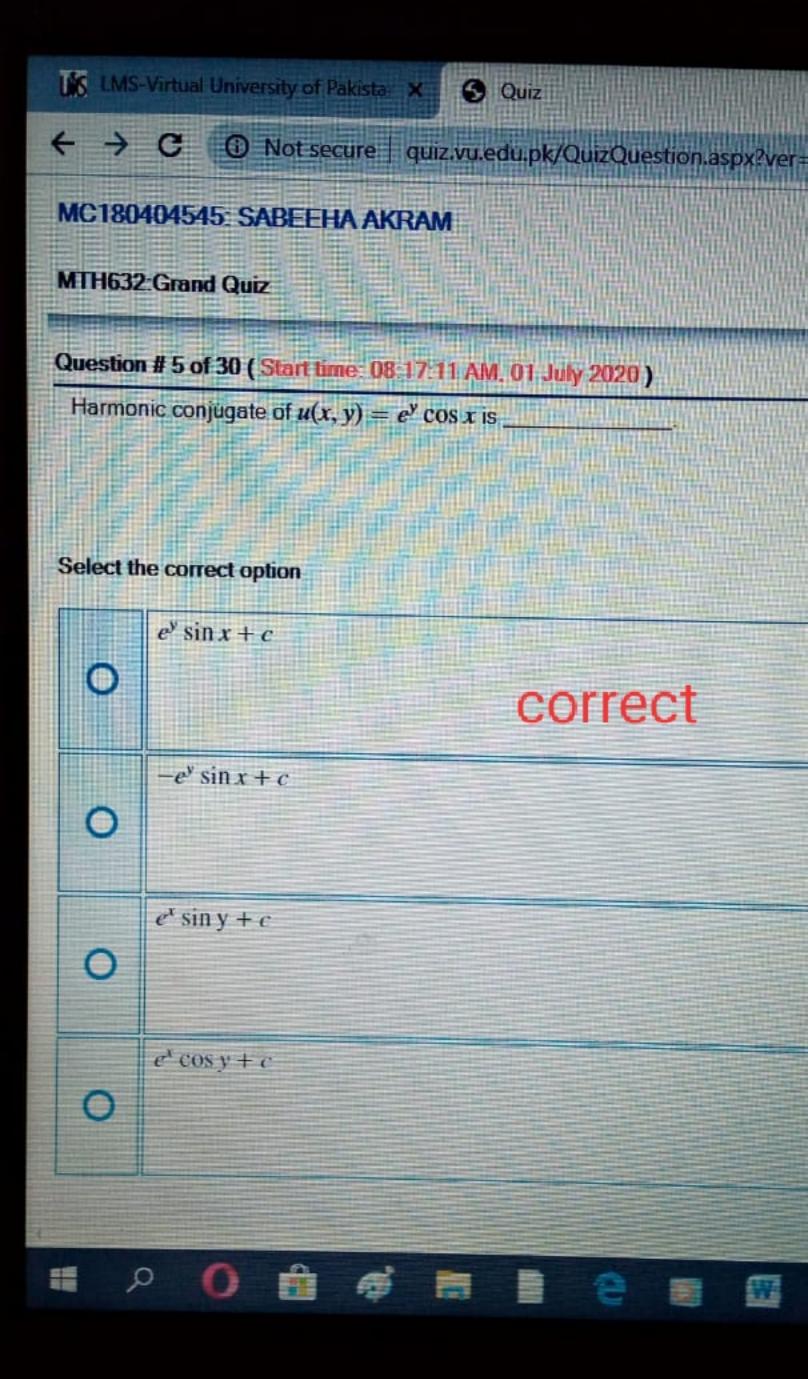


















MC180404580: NAVEED AHMED

MTH632:Grand Quiz

Quiz Start Time: 08:10 AM, 01 July 2020

Question # 22 of 30 (Start time: 08:34:00 AM, 01 July 2020)

Total Marks: 1

The Jordan Curve Theorem guarantees that a simple closed curve must enclose a region.

Select the correct option

0	Euler curve
	Jordan curve
0	correct
	Simple curve
0	
	Rotation curve
0	











a numerical 0



none of the above

0















MC180404580: NAVEED AHMED

MTH632:Grand Quiz Quiz Start Time: 08:10 AM, 01 July 2020

Question # 24 of 30 (Start time: 08:35:41 AM, 01 July 2020)

Total Marks: 1

Select th	ne correct option	Reload Math Equations
0	n points	
0	10 points	
0	one point	
0	no points	











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	× ① Quiz quiz.vu.edu.pk			~	:
	80404292: SHUMAILA KHAIR MUHAMMAD 32:Grand Quiz		Quiz Sta	Time et Time: 07:37 A	Left 84 6 MC(s)
Quest	en # 30 ef 30 (Start time: 08:07:52 AM, 01 July 2020)				Total Marks
A			point.		
Select the correct option					
0	regular				
0	non-regular				
0	singular	correct			
0	non-singular				
			CHARLES		



correct

Reload Math Equations

Click to Save Answer & Move to Next Question

1

⇧

Select the correct option

√2

√3

2

0

0

0

0





Quiz Start Time: 08:10 AM, 01 July 2020



MC180404580: NAVEED AHMED

MTH632:Grand Quiz

Time Left 85 sec(s)

Question # 13 of 30 (Start time: 08:24:31 AM, 01 July 2020)

Total Marks: 1

$$If\ f(z)=z^2,\ \mathrm{g}(\mathrm{z})=\frac{1}{z},\ \mathrm{then}\ \mathrm{g}(\mathrm{f}(4))=$$

Select th	ne correct option	Reload Math Equations
0	4	
0	16	
0	1/4	
0	1/16 CO	rrect



















MC180404580: NAVEED AHMED

Time Left

MTH632:Grand Quiz

Quiz Start Time: 08:10 AM, 01 July 2020

Question # 7 of 30 (Start time: 08:18:18 AM, 01 July 2020)

Total Marks: 1

If $f(z)=z^2$, then f(x+iy)=_____

Select the o	orrect option
--------------	---------------

Reload Math Equations

0	correct Correct
0	x^2+y^2-2xyi
0	$x^2 + y^2i - 2xyi$
0	$x^2 - y^2i - 2xyi$

















MC180404580; NAVEED AHMED

MTH632:Grand Quiz



Question # 11 of 30 (Start time: 08:22:07 AM, 01 July 2020)

Total Marks: 1 If a function f(z) = u(x,y) + iv(x,y) is analytic in a domain D, then its component functions u and v are _____ in D.

Select th	elect the correct option		
0	equal		
0	steady		
0	harmonic correct		
0	homogeneous		



















Total Marks: 1

MC180404580: NAVEED AHMED

MTH632:Grand Quiz

Quiz Start Time: 08:10 AM, 01 July 2020

Question # 8 of 30 (Start time: 08:19:22 AM, 01 July 2020)

Let z = 7 i, then $r = _____$.

Select the correct option

	2010 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
0	1
0	2
0	4
0	7 correct













 $If\ Cauchy-Riemann\ equations\ are\ not\ satisfied\ at\ a\ point\ z_0\ then\ function\ is\ not\ _____ at\ z_0.$

correct

Click to Save Answer & Move to Next Question

Reload Math Equations



Select the correct option

0

0

integrable

differentiable













Quiz Start Time: 08:10 AM, 01 July 2020



MC180404580: NAVEED AHMED

MTH632:Grand Quiz



Question # 5 of 30 (Start time: 08:15:39 AM, 01 July 2020)

Total Marks: 1

Consider $\lim_{z \to z_0} f(z) = A$ and $\lim_{z \to z_0} g(z) = B$. Then $\lim_{z \to z_0} \frac{f(z)}{g(z)} =$ ______

Select the	e correct option Reload Math Equations
0	$\frac{A}{B}$, $B \neq 0$ CORRECT
0	A+B
0	A-B
0	A.B



















MC180404580: NAVEED AHMED

MTH632:Grand Quiz

Quiz Start Time: 08:10 AM, 01 July 2020

Question # 3 of 30 (Start time: 08:13:17 AM, 01 July 2020)

Total Marks: 1

The Cauchy - Riemann equations on a pair of real - valued functions of two real variables u(x, y) and v(x, y) are $U_x = V_y$ and _____.

Select the	e correct option	Reload Math Equations
0	$U_y = -V_y$	
0	$U_x = -V_x$	
0	correct	
0	$U_x = -V_y$	

















Total Marks: 1

MC180404580: NAVEED AHMED

MTH632:Grand Quiz

Quiz Start Time: 08:10 AM, 01 July 2020

Question # 4 of 30 (Start time: 08:14:21 AM, 01 July 2020)

Sum of complex numbers (3 + 5i) and (4 - 3i) is ___

elect the	ect the correct option		
0	1+5i		
0	7-3i		
0	7+5i		
0	7 + 2i Correct		

















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MTH632:Grand Quiz

Time Left 89 sec(s)

Quiz Start Time: 08:10 AM, 01 July 2020

Question # 2 of 30 (Start time: 08:12:08 AM, 01 July 2020)

Total Marks: 1

$$Iff(z)=z^3, \ g(z)=\frac{1}{z}, \ \text{then} \ g(f(i))=$$

Select the correct option		Reload Math Equations
0	correct	
0	i^2	
0	į ³	
0	-1	









