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MC170402312: ZAIBA AKRAM

Time Left 78 sec(s)

MTH632:Quiz#2

Quiz Start Time: 03:55 PM, 09 August 2019

Question # 1 of 10 (Start time: 03:55:32 PM, 09 August 2019) Total Marks: 1

Harmonic conjugate of $u(x, y) = e^y \cos x$ is _____.

Select the correct option

Reload Math Equations

- $e^y \sin x + c$
- $-e^y \sin x + c$
- $e^x \sin y + c$
- $e^x \cos y + c$

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MC170402312: ZAIBA AKRAM

Time Left 84 sec(s)

MTH632:Quiz#2

Quiz Start Time: 03:55 PM, 09 August 2019

Question # 2 of 10 (Start time: 03:56:05 PM, 09 August 2019)

Total Marks: 1

The sequence $z_n = \frac{i}{n^3}$ $(n = 1, 2, 3, \ldots)$ for $n \to \infty$ converges to _____.

Select the correct option

Reload Math Equations

- [x] 0
- [ ] 1/2
- [ ] 1
- [ ] infinity

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Time Left 74 sec(s)

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Quiz Start Time: 03:55 PM, 09 August 2019

Question # 3 of 10 (Start time: 03:56:36 PM, 09 August 2019) Total Marks: 1

Any polynomial $p(z) = a_0 + a_1 z + a_2 z^2 + \ldots + a_n z^n \ (a_n \neq 0)$, of degree $n (n \geqslant 1)$ has least one zero, i.e. there exists at least _____ z_0, such that $P(z_0) = 0$.

Select the correct option

Reload Math Equations

- n points
- 10 points
- one point
- no points

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MC170402312: ZAIBA AKRAM

Time Left 85 sec(s)

MTH632:Quiz#2

Quiz Start Time: 03:55 PM, 09 August 2019

Question # 4 of 10 (Start time: 03:57:08 PM, 09 August 2019) Total Marks: 1

Each simple closed curve C divides the plane into two domains (connected open sets). One of which is unbounded and is called the _____ of C.

Select the correct option

- interior
- exterior

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MC170402312: ZAIBA AKRAM

Time Left 82 sec(s)

MTH632:Quiz#2

Quiz Start Time: 03:55 PM, 09 August 2019

Question # 5 of 10 (Start time: 03:57:21 PM, 09 August 2019)

Total Marks: 1

A curve C is said to be a contour if it is constructed by joining finitely many smooth curves end to end.

Select the correct option

- False
- True

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MC170402312: ZAIBA AKRAM

Time Left 84 sec(s)

MTH632:Quiz#2

Quiz Start Time: 03:55 PM, 09 August 2019

Question # 6 of 10 (Start time: 03:57:36 PM, 09 August 2019) Total Marks: 1

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

Select the correct option

Reload Math Equations

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

Click to Save Answer & Move to Next Question

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MC170402312: ZAIBA AKRAM

Time Left 79 sec(s)

MTH632:Quiz#2

Quiz Start Time: 03:55 PM, 09 August 2019

Question # 7 of 10 (Start time: 03:57:53 PM, 09 August 2019) Total Marks: 1

The sequence $z_n = -3 + i\frac{1}{n^3}$ $(n = 1, 2, 3, \ldots)$ for $n \to \infty$ converges to _____.

Select the correct option

Reload Math Equations

- i
- -1
- 1
- -3

Click to Save Answer & Move to Next Question

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MC170402312: ZAIBA AKRAM

Time Left 82 sec(s

MTH632:Quiz#2

Quiz Start Time: 03:55 PM, 09 August

Question # 8 of 10 (Start time: 03:58:11 PM, 09 August 2019)

Total Ma

Each simple closed curve C divides the plane into two domains (connected open sets). One of which is bounded and is called _____ of C.

Select the correct option

- (●) interior
- ( ) exterior

Click to Save Answer & Move to Next Question

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MC170402312: ZAIBA AKRAM

Time Left 85 sec(s)

MTH632:Quiz#2

Quiz Start Time: 03:55 PM, 09 August 2019

Question # 9 of 10 (Start time: 03:58:23 PM, 09 August 2019) Total Marks: 1

If $e^{ax}\cos y$ is harmonic then 'a' is _____.

Select the correct option

Reload Math Equations

- (●) i
- ( ) -1
- ( ) 0
- ( ) 2

Click to Save Answer & Move to Next Question

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quiz.vu.edu.pk/QuizQuestion.aspx?ver=af

MC170402312: ZAIBA AKRAM

Time Left 76 sec(s)

MTH632:Quiz#2

Quiz Start Time: 03:55 PM, 09 August 2019

Question # 10 of 10 (Start time: 03:58:41 PM, 09 August 2019) Total Marks: 1

A domain D (connected open set) is called _____ connected if interior of every simple closed contour C is contained in D.

Select the correct option

- multiply
- simply

Click to Save Answer & Move to Next Question

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