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Quiz Start Time: 03:44

PM, 13 August 2021)

Evaluate $\int_C f(z)dz$ where $C: z(t) = (x + iy)t$ for $a \leq t \leq b$ and $f(z) = z$

$$\frac{(b^2 - a^2)(x + iy)^2}{2}$$

$$\frac{(b^2 - a^2)(x + iy)}{2}$$

$$\frac{(b^2 + a^2)(x + iy)^2}{2}$$

$$\frac{(b^2 + a^2)(x + iy)}{2}$$

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Quiz Start Time: 03:44

PM, 13 August 2021)

Evaluate $\int_C f(z)dz$ where $C: z(t) = (x + iy)t$ for $a \leq t \leq b$ and $f(z) = z$

$$\frac{(b^2 - a^2)(x + iy)^2}{2}$$

$$\frac{(b^2 - a^2)(x + iy)}{2}$$

$$\frac{(b^2 + a^2)(x + iy)^2}{2}$$

$$\frac{(b^2 + a^2)(x + iy)}{2}$$

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2

MC200203827: TAHSEEN HASSAN

Time Left 88 sec(s)

MTH632:Quiz # 3

Quiz Start Time: 03:44 PM, 13 August 2021

Question # 10 of 10 (Start time: 03:55:23 PM, 13 August 2021)

Total Marks: 1

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

Select the correct option

- discontinuous
- continuous
- contour
- disconnected

Click to Save Answer & Move to Next Question

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Quiz S

:51 PM, 13 August 2021)

Evaluate $\int_C f(z)dz$ where C:$f(z) = e^{it}$ for $0 \leq t \leq 2\pi$ and $f(z) = 1/z$

πi

$-2\pi i$

$2\pi i$

$-\pi i$

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2

MC200203827: TAHSEEN HASSAN

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MTH632:Quiz # 3

Quiz Start Time: 03:44 PM, 13 August 2021

Question # 2 of 10 (Start time: 03:45:48 PM, 13 August 2021)

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

- exterior
- interior

Click to Save Answer & Move to Next Question

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MC200203827: TAHSEEN HASSAN

Time Left 89 sec(s)

MTH632:Quiz # 3

Quiz Start Time: 03:44 PM, 13 August 2021

Question # 7 of 10 (Start time: 03:50:58 PM, 13 August 2021)

Total Marks: 1

Find value of Green's theorem if P=x2 and Q=y2 for region x=1 and y=2 from origin.

Select the correct option

- 0
- 1
- 2
- -2

Click to Save Answer & Move to Next Question

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2

MC200203827: TAHSEEN HASSAN

Time Left 88 sec(s)

MTH632:Quiz # 3

Quiz Start Time: 03:44 PM, 13 August 2021

Question # 3 of 10 (Start time: 03:47:07 PM, 13 August 2021)

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

- True
- False

Click to Save Answer & Move to Next Question

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MC200203202: ABDUL RAUOF

ITH632:Quiz # 3

Quiz Start Time: 03:31

uestion # 10 of 10 (Start time: 03:43:56 PM, 13 August 2021)

A continuous complex function f(z) defined on a set containing contour C and z(t) be any parameterization of C for a ≤ t ≤ b then

$$\int_C f(z)dz =$$

elect the correct option

- $\int_a^b f(z)z(t)dz$
- \int\limits_a^b {f^'}(z){z^'}(t)dz}
- \int\limits_a^b {f^'}(z)z(t)dz}
- \int\limits_a^b f(z){z^'}(t)dz}

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MC200203376: MAAZ

Time Left 83 sec(s)

MTH632:Quiz # 3

Quiz Start Time: 08:30 PM, 12 August 2021

Question # 5 of 10 (Start time: 12:32:50 PM, 13 August 2021)

Total Marks: 1

Let $f(z)$ be an analytic in a domain D and D be the interior and boundary of th circle "r" defined as $|z-a|=r$ and $|f(z)| \leq M$, then $|f^{(n)}(a)| \leq \frac{n!M}{r^n}$

Select the correct option

Reload Math Equations

- ML-Inequality
- Cauchy Inequality
- Cauchy Sichwarz Inequality
- None of above

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03:33:54 PM, 13 August 2021)

Let C_1 and C_2 be two simple closed contours with positively oriented such that $C_1 - C_2$ is positively oriented as boundary of the region R then

$\int_{C_1-C_2} f(z)dz \geq 0$

$\int_{C_1-C_2} f(z)dz \neq 0$

$\int_{C_1-C_2} f(z)dz \leq 0$

$\int_{C_1-C_2} f(z)dz = 0$

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MC200203376: MAAZ

Time Left 83 sec(s)

MTH632:Quiz # 3

Quiz Start Time: 08:30 PM, 12 August 2021

Question # 5 of 10 (Start time: 12:32:50 PM, 13 August 2021)

Total Marks: 1

Let $f(z)$ be an analytic in a domain D and D be the interior and boundary of th circle "r" defined as $|z-a|=r$ and $|f(z)| \leq M$, then $|f^{(n)}(a)| \leq \frac{n!M}{r^n}$

Select the correct option

Reload Math Equations

- ML-Inequality
- Cauchy Inequality
- Cauchy Sichwarz Inequality
- None of above

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نالج: محمودکوٹ

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A domain D that is not simply connected is...

Select the correct option

- none of above
- triply connected
- multiply connected
- doubly connected



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Quiz St

M, 13 August 2021)

Evaluate $\frac{1}{2\pi}\int_0^{2\pi} \exp(\frac{i\pi}{3} + 5e^{i\theta})d\theta$ if $f(z) = \exp(z)$ then we get,

$\sin\frac{\pi}{3} + i\cos\frac{\pi}{3}$

$\cos\frac{\pi}{3} - i\sin\frac{\pi}{3}$

$\cos\frac{\pi}{3} + i\sin\frac{\pi}{3}$



$\cos\frac{\pi}{3} + \sin\frac{\pi}{3}$

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MTH632:Quiz # 3

Question # 7 of 10 (Start time: 03:40:24 PM, 13 August 2021)

\begin{gathered}
{\text{Let f(z)\;be analytic function in simply connected domain D and }}{{\text{f}}^'}^{\tex
\end{gathered}

Select the correct option

- Mean Value Theorem
- Rolle's Theorem
- Green's Theorem
- Cauchy Theorem



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A domain D that is not simply connected is...

Select the correct option

- none of above
- triply connected
- multiply connected
- doubly connected

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MTH632:Quiz # 3

Quiz Start Time: 03:07 PM, 13 August

Question # 10 of 10 (Start time: 03:19:20 PM, 13 August 2021)

Total M

If C is simple closed contour and D be the domain that forms interior of C. P and Q are continuous function and their partial derivatives are also continuou then

Select the correct option

Reload Math Equ

- $\int_C [P(x,y)dx - Q(x,y)dy] = \iint_D (Q_x(x,y) + P_y(x,y))dxdy$
- $\int_C [P(x,y)dx - Q(x,y)dy] = \iint_D (Q_x(x,y) - P_y(x,y))dxdy$
- $\int_C [P(x,y)dx + Q(x,y)dy] = \iint_D (Q_x(x,y) - P_y(x,y))dxdy$
- $\int_C [P(x,y)dx + Q(x,y)dy] = \iint_D (Q_x(x,y) + P_y(x,y))dxdy$

Click to Save Answer & Move to Next Question

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Question # 1 of 10 (Start time: 03:32:00 PM, 13 August 2021)

If C is positively oriented unit circle i.e. {C: |z|=1} then

$$\int_C \frac{e^{2z}}{z^3} dz$$

is

Select the correct option

○	$6\pi i$
○	$2\pi i$
○	
○	$4\pi i$

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ITH632:Quiz # 3

Quiz Start Time: 03:31 PM, 13 August 202

uestion # 9 of 10 (Start time: 03:43:13 PM, 13 August 2021)

Total Marks:

If the interior of every simple closed contour C is contained in the domain D , then domain is said to be....

elect the correct option

- Simple connected
- None of above
- Disconnected
- Unbounded

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03:33:54 PM, 13 August 2021)

Let C_1 and C_2 be two simple closed contours with positively oriented such that $C_1 - C_2$ is positively oriented as boundary of the region R then

$$\int_{C_1-C_2} f(z)dz \geq 0$$

$$\int_{C_1-C_2} f(z)dz \neq 0$$

$$\int_{C_1-C_2} f(z)dz \leq 0$$

$$\int_{C_1-C_2} f(z)dz = 0$$



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MC200203376: MAAZ

Time Left 65 sec(s)

MTH632:Quiz # 3

Quiz Start Time: 08:30 PM, 12 August 2021

Question # 9 of 10 (Start time: 12:40:16 PM, 13 August 2021) Total Marks: 1

Let $f(t)$ be continuous function on contour C and L be length of C. For all t in contour C, $|f(t)| \leq M$ then

Select the correct option

Reload Math Equations

- $|\int_C f(t)\,dt| > ML$
- $|\int_C f(t)\,dt| \geqslant ML$
- $|\int_C f(t)\,dt| < ML$
- $|\int_C f(t)\,dt| \leqslant ML$ ✓

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MC200203376: MAAZ

Time Left 87 sec(s)

MTH632:Quiz # 3

Quiz Start Time: 08:30 PM, 12 August 2021

Question # 4 of 10 (Start time: 12:31:37 PM, 13 August 2021)

Total Marks: 1

If the interior of every simple closed contour C is contained in the domain D , then domain is said to be....

Select the correct option

- Unbounded
- Disconnected
- Simple connected
- None of above

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MC200203376: MAAZ

Time Left 85 sec(s)

MTH632:Quiz # 3

Quiz Start Time: 08:30 PM, 12 August 2021

Question # 10 of 10 (Start time: 12:41:08 PM, 13 August 2021) Total Marks: 1

If $f(z)$ is an analytic function in domain D then for $n \geqslant 0$ where n is a positive integer,

Select the correct option

Reload Math Equations

- $f^{(n)}(z)$ is analytic in disconnected D
- None of above
- $f^{(n)}(z)$ is not analytic in simple connected D
- $f^{(n)}(z)$ is an analytic in simple connected D ✓

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Quiz
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MC200203376: MAAZ

Time Left 86 sec(s)

MTH632:Quiz # 3

Quiz Start Time: 08:30 PM, 12 August 2021

Question # 2 of 10 (Start time: 12:28:23 PM, 13 August 2021)

Total Marks: 1

Mathematically, the functions in Green's theorem will be

Select the correct option

- Continuous derivatives
- Discrete partial derivatives
- Continuous partial derivatives ✓
- Discrete derivatives

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MC200203376: MAAZ

Time Left 84 sec(s)

MTH632-Quiz # 3

Quiz Start Time: 08:30 PM, 12 August 2021

Question # 3 of 10 (Start time: 12:29:26 PM, 13 August 2021)

Total Marks: 1

Let a lies in the interior of contour C and
$P_n(z) = a_n z^n + a_{n-1} z^{n-1} + a_{n-2} z^{n-2} + \ldots + a_1 z + a_0 z^0$
then the value of $\int_C \frac{P_n(z)}{z-a} dz$ *is ... when* $n = 3$

Select the correct option

Reload Math Equations

- $2\pi P_n(a)$
- $2\pi P_3(a)$
- $2\pi i P_n(a)$
- $2\pi i P_3(a)$ ✓

Click to save Answer (Move to Next Question)

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MC200203376: MAAZ

Time Left 87 sec(s)

MTH632:Quiz # 3

Quiz Start Time: 08:30 PM, 12 August 2021

Question # 4 of 10 (Start time: 12:31:37 PM, 13 August 2021)

Total Marks: 1

If the interior of every simple closed contour C is contained in the domain D , then domain is said to be....

Select the correct option

- Unbounded
- Disconnected
- Simple connected
- None of above

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MC200203376: MAAZ

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MTH632:Quiz # 3

Quiz Start Time: 08:30 PM, 12 August 2021

Question # 8 of 10 (Start time: 12:37:37 PM, 13 August 2021)

Total Marks: 1

If function f is an analytic function in simple connected domain where $C_R(z_o) = \{z(t) : |z - z_o| = R\}, 0 \leqslant t \leqslant 2\pi$ and R be the radius of circle, then

Select the correct option

Reload Math Equations

- $f(z_o) = \frac{1}{\pi} \int_0^{2\pi} f(z_o + \mathrm{Re}^{it}) dt$
- $f(z_o) = \frac{1}{2\pi} \int_0^{2\pi} f(z_o + \mathrm{Re}^{it}) dt$
- $f(z_o) = \frac{1}{4\pi} \int_0^{2\pi} f(z_o + \mathrm{Re}^{it}) dt$
- $f(z_o) = \frac{1}{2\pi i} \int_0^{2\pi} f(z_o + \mathrm{Re}^{it}) dt$ ✓

Click to Save Answer & Move to Next Question

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MC200203376: MAAZ

Time Left 86 sec(s)

MTH632:Quiz # 3

Quiz Start Time: 08:30 PM, 12 August 2021

Question # 2 of 10 (Start time: 12:28:23 PM, 13 August 2021)

Total Marks: 1

Mathematically, the functions in Green's theorem will be

Select the correct option

- Continuous derivatives
- Discrete partial derivatives
- Continuous partial derivatives ✓
- Discrete derivatives

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Question # 7 of 10 (Start time: 12:05:00 PM, 10 August 2021)

Total Marks:

Let C_1 and C_2 be two simple closed contours with positively oriented s.t C_1 is exterior and C_2 is an interior. If $f(z)$ is analytic in domain that contains both contours and region between them, then

Select the correct option

- $\int_{C_1} f(z)dz = \int_{C_2} f(z)dz$
- $\int_{C_1} f(z)dz < \int_{C_2} f(z)dz$
- $\int_{C_1} f(z)dz \neq \int_{C_2} f(z)dz$
- $\int_{C_1} f(z)dz > \int_{C_2} f(z)dz$

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$f(t) = u(t) + iv(t)$ *be a piece − wise continuous complex valued function of real variable* t, $a \leqslant t \leqslant b$ *the*

tion

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$$\left|\int_a^b f(t)dt\right| \leqslant \int_a^b |f(t)|dt$$

$$\left|\int_a^b f(t)dt\right| \geqslant \int_a^b |f(t)|dt$$

$$\left|\int_a^b f(t)dt\right| > \int_a^b |f(t)|dt$$

$$\left|\int_a^b f(t)dt\right| < \int_a^b |f(t)|dt$$

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Quiz Start Time:

3:35:12 PM, 13 August 2021)

Evaluate $\int_C f(z)dz$ where $C : z(t) = e^{it}$ for $0 \leqslant t \leqslant \pi$ and $f(z) = 1/z$

$i\pi$

$2\pi i$

$-2\pi i$

$-\pi i$

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Evaluate the integral $\int_C \frac{e^z}{z^4} dz$ where the contour C : $|z| = 1$

the correct option

Reload Math Equations

$\frac{2\pi i}{3}$

$\frac{4\pi i}{3}$

$\frac{8\pi i}{3}$

$\frac{\pi i}{3}$

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MC200203376: MAAZ

Time Left 85 sec(s)

MTH632 Quiz # 3

Quiz Start Time: 08:30 PM, 12 August 2021

Question # 9 of 10 (Start time: 12:48:16 PM, 13 August 2021)

Total Marks:

Let $f(t)$ be continuous function on contour C and L be length of C. For all t on contour C, $|f(t)| \leq M$ then

Select the correct option

Reload Math Equations

- $\left|\int_C f(t)\,dt\right| > ML$
- $\left|\int_C f(t)\,dt\right| > ML$
- $\left|\int_C f(t)\,dt\right| < ML$
- $\left|\int_C f(t)\,dt\right| \leq ML$

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CamScanner 08-13-2021 13.54 4 / 37 75%

Total Marks: 1

If function f is an analytic function in simple connected domain where $C_R(z_0) = \{z(t) : |z - z_0| = R\}, 0 \leq t \leq 2\pi$ and R be the radius of circle, then

correct option

Reload Math Equations

$$f(z_0) = \frac{1}{\pi}\int_0^{2\pi} f(z_0 + Re^{it})dt$$

$$f(z_0) = \frac{1}{2\pi}\int_0^{2\pi} f(z_0 + Re^{it})dt$$

$$f(z_0) = \frac{1}{4\pi}\int_0^{2\pi} f(z_0 + Re^{it})dt$$

$$f(z_0) = \frac{1}{2\pi i}\int_0^{2\pi} f(z_0 + Re^{it})dt$$

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CamScanner 08-13-2021 13.54 5 / 37 75%

Find value of Green's theorem if P=x2 and Q=y2 for region x=1 and y=2 from origin.

Total

Select the correct option

- 0
- 2
- 1
- -2

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MC200203376: MAAZ

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MTH632:Quiz # 3

Quiz Start Time: 08:30 PM, 12 August 2021

Question # 2 of 10 (Start time: 12:28:23 PM, 13 August 2021)

Total Marks: 1

Mathematically, the functions in Green's theorem will be

Select the correct option

- Continuous derivatives
- Discrete partial derivatives
- Continuous partial derivatives
- Discrete derivatives



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CamScanner 08-13-2021 13.54 12 / 37 80%
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Let a lies in the interior of contour C and

$$P_n(z) = a_n z^n + a_{n-1} z^{n-1} + a_{n-2} z^{n-2} + \ldots + a_1 z + a_0 z^0$$

then the value of $\int_C \frac{P_n(z)}{z-a} dz$ *is ... when* $n = 3$

rect option

Reload Math Equations

- $2\pi i P_3(a)$
- $2\pi i P_n(a)$
- $2\pi P_3(a)$
- $2\pi P_n(a)$

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Quiz
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MC200203376: MAAZ

Time Left 85 sec(s)

MTH632:Quiz # 3

Quiz Start Time: 08:30 PM, 12 August 2021

Question # 10 of 10 (Start time: 12:41:08 PM, 13 August 2021)

Total Marks: 1

If $f(z)$ is an analytic function in domain D then for $n \geq 0$ where n is a positive integer,

Select the correct option

Reload Math Equations

- $f^{(n)}(z)$ is analytic in disconnected D
- None of above
- $f^{(n)}(z)$ is not analytic in simple connected D
- $f^{(n)}(z)$ is an analytic in simple connected D



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quiz.vu.edu.pk

437: FAIZA ARIF

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Quiz Start Time: 03:07 PM, 13

of 10 (Start time: 03:15:50 PM, 13 August 2021)

Let $f(t)$ be continuous function on contour C and L be length of C. For all t in contour C, $|f(t)| \leqslant M$ then

orrect option

Reload M

$$|\int_C f(t)\,dt| \geqslant ML$$

$$|\int_C f(t)\,dt| < ML$$

$$|\int_C f(t)\,dt| > ML$$

$$|\int_C f(t)\,dt| \leqslant ML$$

Click to Save Answer & Move to Next Q

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Quiz
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MC200203376: MAAZ

Time Left 87 sec(s)

MTH632:Quiz # 3

Quiz Start Time: 08:30 PM, 12 August 2021

Question # 4 of 10 (Start time: 12:31:37 PM, 13 August 2021)

Total Marks: 1

If the interior of every simple closed contour C is contained in the domain D , then domain is said to be....

Select the correct option

- Unbounded
- Disconnected
- Simple connected
- None of above



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MC200203376: MAAZ

Time Left 63 sec(s)

MTH632:Quiz # 3

Quiz Start Time: 08:30 PM, 12 August 2021

Question # 3 of 10 (Start time: 12:29:26 PM, 13 August 2021) Total Marks: 1

Let a lies in the interior of contour C and
$P_n(z) = a_n z^n + a_{n-1} z^{n-1} + a_{n-2} z^{n-2} + \ldots + a_1 z + a_0 z^0$
then the value of $\int_C \frac{P_n(z)}{z-a} dz$ is ... when $n = 3$

Select the correct option

Reload Math Equations

- $2\pi P_3(a)$
- $2\pi P_1(a)$
- $2\pi i P_3(a)$
- $2\pi i P_2(a)$

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MC200203376: MAAZ

Time Left 83 sec(s)

MTH632:Quiz # 3

Quiz Start Time: 08:30 PM, 12 August 2021

Question # 5 of 10 (Start time: 12:32:50 PM, 13 August 2021)

Total Marks: 1

Let $f(z)$ be an analytic in a domain D and D be the interior and boundary of th circle "r" defi as $|z-a|=r$ and $|f(z)| \leqslant M$, then $|f^{(n)}(a)| \leqslant \frac{n!M}{r^n}$

Select the correct option

Reload Math Equations

- ML-Inequality
- Cauchy Inequality
- Cauchy Sichwarz Inequality
- None of above

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MC200203376: MAAZ

Time Left 84 sec(s)

MTH632:Quiz # 3

Quiz Start Time: 08:30 PM, 12 August 2021

Question # 6 of 10 (Start time: 12:34:11 PM, 13 August 2021)

Total Marks: 1

Consider the integral $\int_C f(z)dz$ where contour $C: z(t) = e^{it}, L = 2\pi$ and $f(z) = \bar{z}$. The upper bound is

Select the correct option

Reload Math Equations

- $-\pi$
- -2π
- π
- 2π



Give it Your Answer & Move to Next Question

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22% 12:34

Quiz
quiz.vu.edu.pk

MC200203376: MAAZ

Time Left 84 sec(s)

MTH632:Quiz # 3

Quiz Start Time: 08:30 PM, 12 August 2021

Question # 6 of 10 (Start time: 12:34:11 PM, 13 August 2021) Total Marks: 1

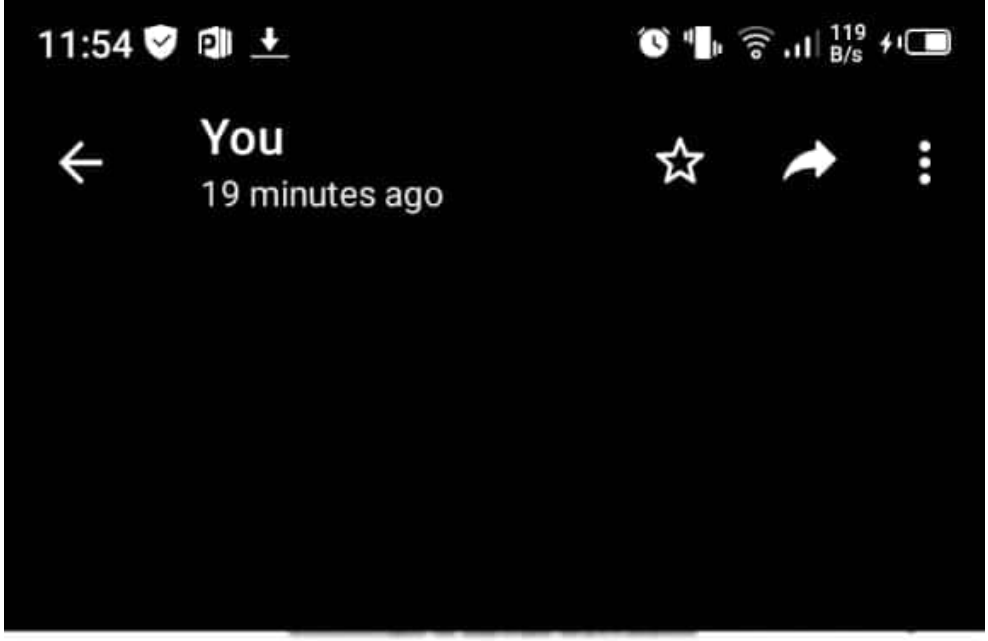
Consider the integral $\int_C f(z)dz$ where contour $C: z(t) = e^{it}$, $L = 2\pi$ and $f(z) = \bar{z}$. The upper bound is

Select the correct option

Reload Math Equations

- $-\pi$
- -2π
- π
- 2π

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Question # 10 of 10 (Start time: 09:25:33 AM, 12 August 2021) Total Marks: 1

$\int_C \frac{f(z)}{(z+1)^4} dz$ where $z = e^{2z}$ then this integral is equal to

Select the correct option

Reload Math Equations

- $\frac{\pi i}{3!} f^{(3)}(1)$
- $\frac{2\pi i}{3!} f^{(3)}(-1)$
- $\frac{\pi i}{3!} f^{(3)}(-1)$
- $\frac{2\pi i}{3!} f^{(3)}(1)$ ✓

Click to Save Answer & Move to Next Question



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[redacted]

Question # 8 of 10 (Start time: 09:25:23 AM, 12 August 2021) Total Marks: 1

Evaluate $\int_C f(x)dx$ where C:$f(z) = e^{it}$ for $0 \leq t \leq 2\pi$ and $f(z) = 1/z$

Select the correct option

Reload Math Equations

- ● πi
- ○ $2\pi i$
- ○ $-2\pi i$
- ○ $-\pi i$

Click to Save Answer & Move to Next Question

[redacted]

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[redacted]

Question # 8 of 10 (Start time: 09:25:23 AM, 12 August 2021) Total Mar: 1

Evaluate $\int_C f(z)dz$ where C:$f(z) = e^{it}$ for $0 \leq t \leq 2\pi$ and $f(z) = 1/z$

Select the correct option

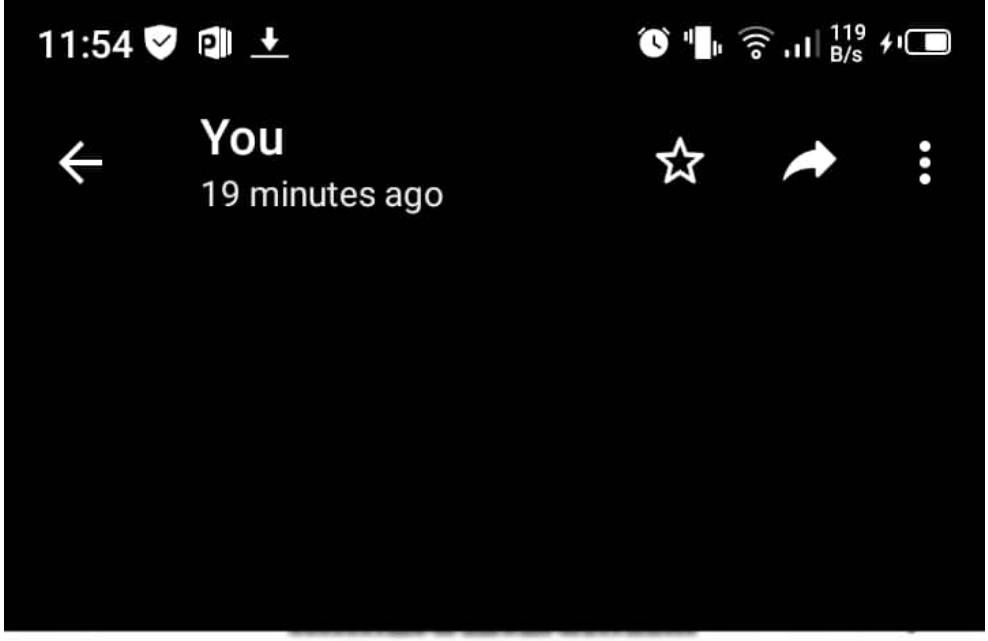
oad Math Equations

- ● πi
- ○ $2\pi i$
- ○ $-2\pi i$
- ○ $-\pi i$

Click to Save Answer & Move to Next Question

[redacted]

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Question # 10 of 10 (Start time: 09:25:33 AM, 12 August 2021) Total Marks: 1

$$\int_C \frac{f(z)}{(z+1)^4} dz \text{ where } z = e^{2z} \text{ then this integral is equal to}$$

Select the correct option

Reload Math Equations

- $\frac{\pi i}{3!} f^{(3)}(1)$
- $\frac{2\pi i}{3!} f^{(3)}(-1)$
- $\frac{\pi i}{3!} f^{(3)}(-1)$
- $\frac{2\pi i}{3!} f^{(3)}(1)$

Click to Save Answer & Move to Next Question



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