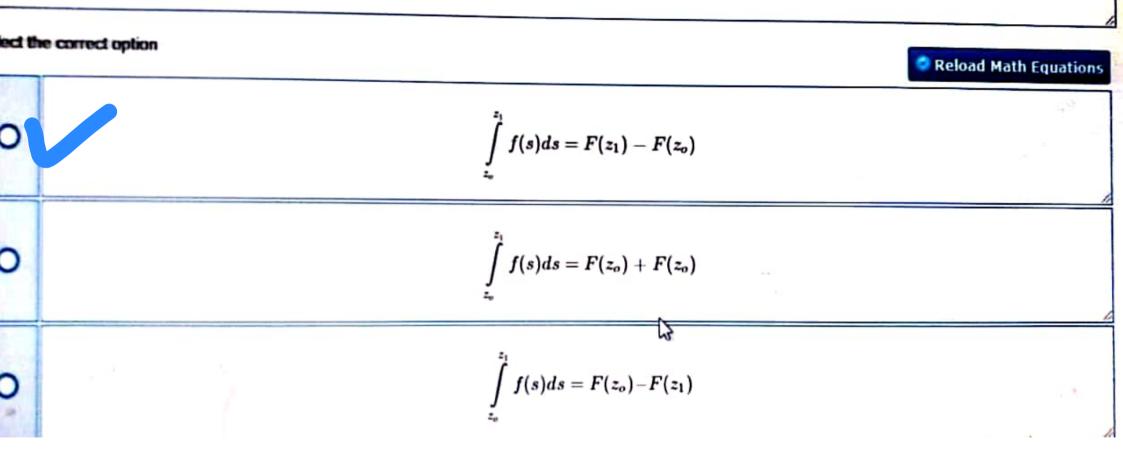
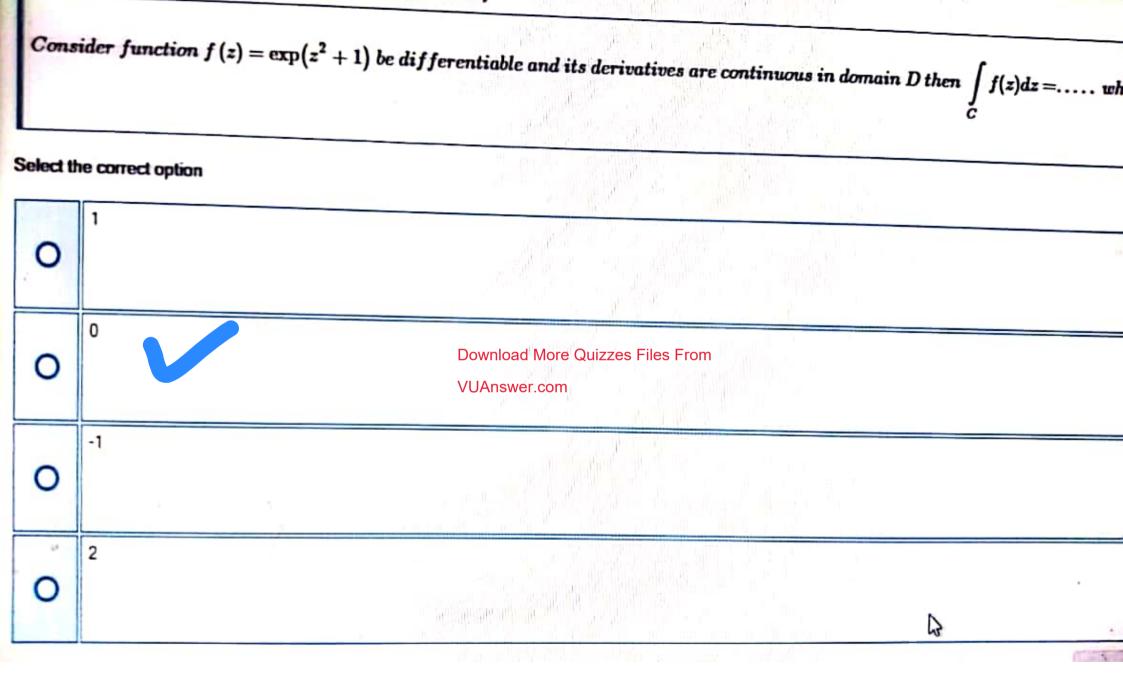


Let z<sub>o</sub> and z<sub>1</sub> be two points in simply connected domain D and f be an analytic complex valued function in D and C be contour by joining z<sub>o</sub> and z<sub>1</sub> then





If function f is an analytic function in simple connected domain where  $C_R(z_o) = \{z(t) : |z - z_o| = R\}, 0 \le t \le 2\pi$ and R be the radius of circle, then COTTES OPLOT Reload Math Equations  $f(z_o) = \frac{1}{\pi} \int_{-\infty}^{2\pi} f(z_o + \operatorname{Re}^{it}) dt$  $f(z_o) = \frac{1}{2\pi} \int_{-\infty}^{2\pi} f(z_o + \operatorname{Re}^{it}) dt$  $f(z_o) = \frac{1}{4\pi} \int_{-\infty}^{2\pi} f(z_o + \operatorname{Re}^{it}) dt$  $f(z_o) = \frac{1}{2\pi i} \int_{-\infty}^{2\pi} f(z_o + \operatorname{Re}^{it}) dt$ 

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

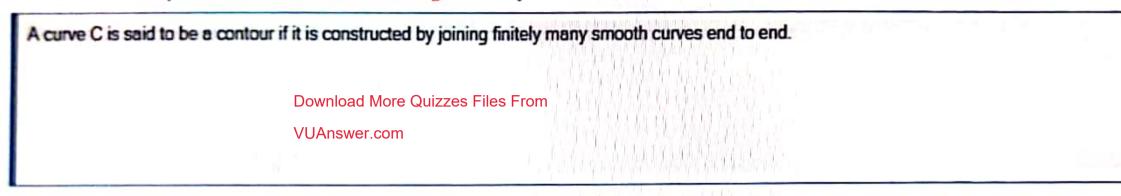
# Select the correct option



	Evaluate the integral $\int_{C} \frac{e^{z}}{z^4} dz$ where the contour $C$ : $ z  = 1$	Total Marine 1
he correct option		Reload Math Equations
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Evaluate the integral 
$$\int_{C} f(z)dz$$
 where  $C: z(t) = e^{it}$  for  $0 \le t \le \pi$  and  $f(z) = 1/z^2$   
nect option   
 $1 - e^{i\pi}$   
 $1 + e^{-i\pi}$   
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Question # 4 of 10 ( Start time: 01:19:45 PM, 13 August 2021 )



# Select the correct option

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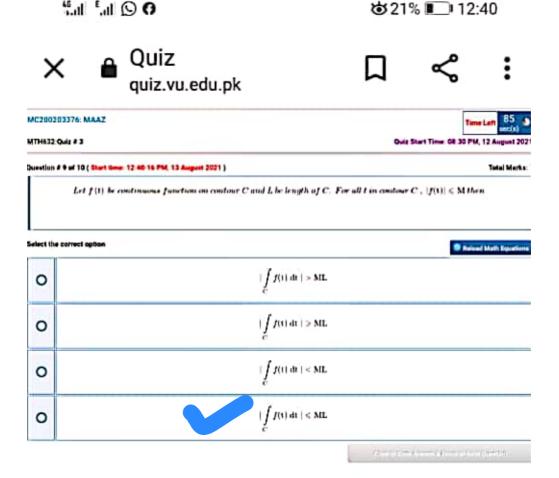
Evoluate 
$$\int_{C} f(z)dz$$
 where  $C: z(t) = (z + iy)t$  for  $a \le t \le b$  and  $f(z) = z$   
aption
$$\frac{(b^2 - a^2)(z + iy)^2}{2}$$

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

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

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

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MTH632:Quiz # 3



## 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  $C_R(z_o) = \{z(t) : |z - z_o| = R\}, 0 \le t \le 2\pi$ and R be the radius of circle, then

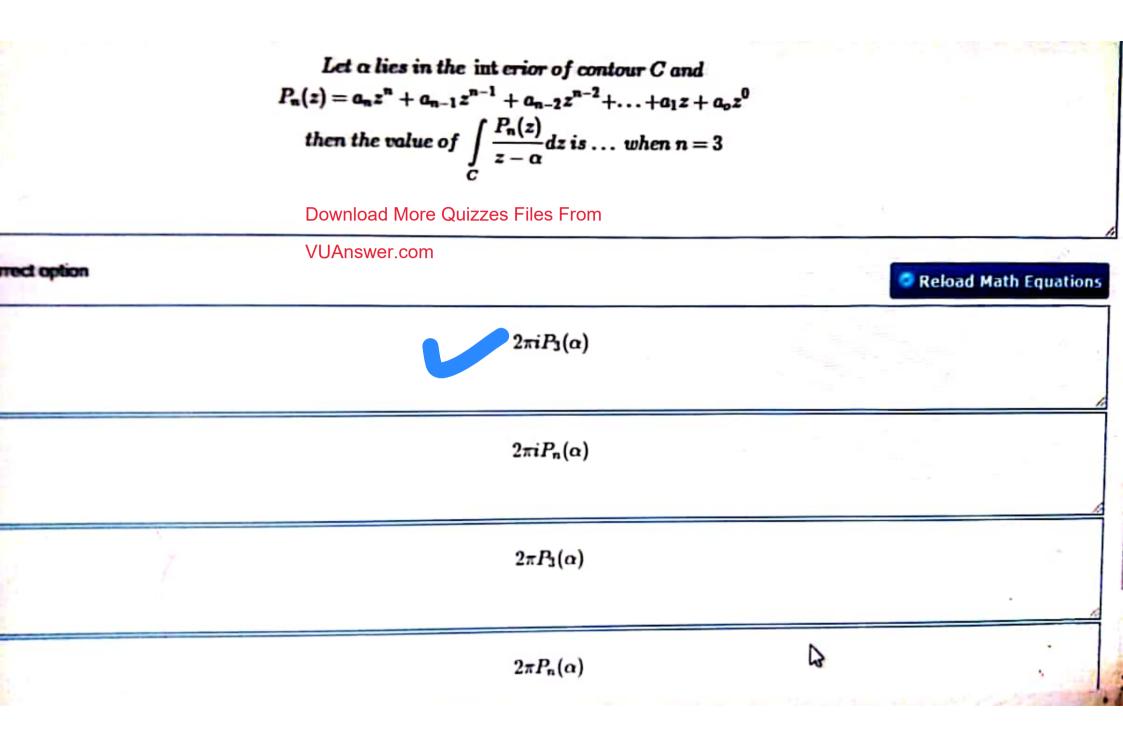
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0	$f(z_o)=rac{1}{2\pi}\int\limits_{0}^{2\pi}f(z_o+{ m Re}^{it})dt$
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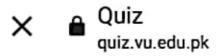
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#### MTHE32 Quiz # 3

Quiz Start Time OR 30 PM, 12 August 202

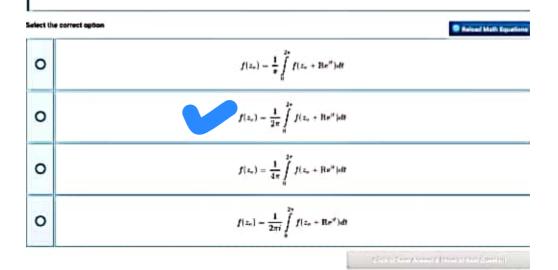
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#### Duration # 8 of 10 ( Start time: 12 37 37 PM, 13 August 2021 )

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



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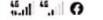
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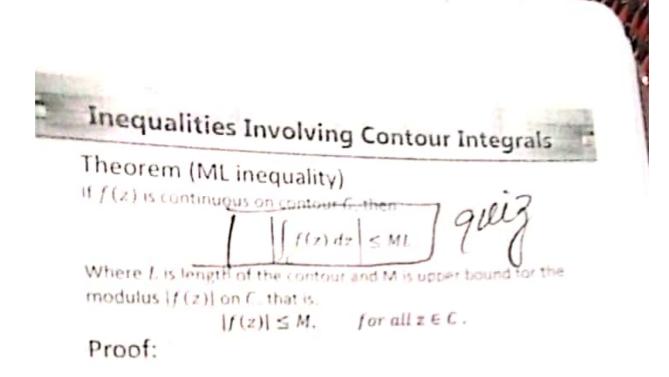
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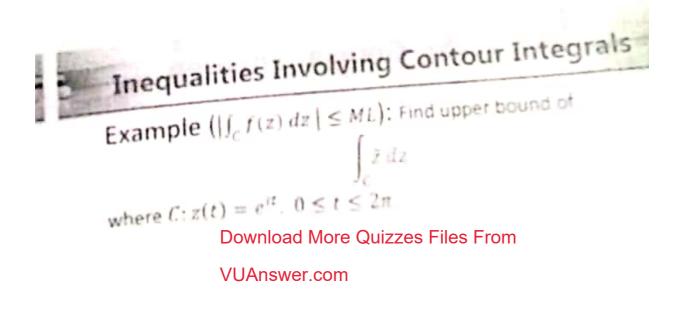
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Question # 2 of 10 ( Start time: 12 28 23 PM, 13 August 2021 )

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Mathematically, the functions in Green's theorem will be

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0	Continuous partial derivatives
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MTHE32 Quiz # 3

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Question # 10 of 10 ( Start Sime: 12:41:00 PM, 13 August 2021 )

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

Select the correct option

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f<sup>(n)</sup>(z) is analytic in disconnected D None of above f<sup>(n)</sup>(z) is not analytic in simple connected D f<sup>(n)</sup>(z) is an analytic in simple connected D

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# Question # 4 of 10 ( Start time: 01:19:45 PM, 13 August 2021 )

Acun	ve C is said to be a contour if it is constructed by jo	bining finitely many smooth curves end to end.
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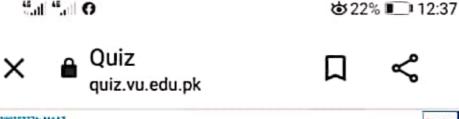
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Select the corr	rect option $f^{(n)}(v) \ \text{is analytic in}$	disconnected D	Relical Meth Equations
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0	f <sup>'ni</sup> (z) is an analytic in	simple connected D	

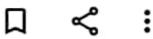
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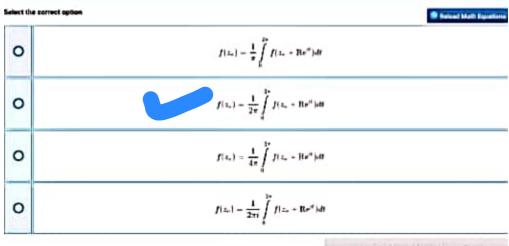
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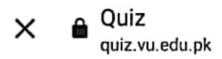
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If function f is an analytic function in simple connected domain where  $C_R(z_a) = \{z(t) \mid |z - z_a| = R\}, 0 \in t \in 2\pi$ and R be the radius of circle, then









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### MC200203376: MAAZ

MTH632:Quiz # 3

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

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

### Select the correct option

Reload Math Equations

Total Marks: 1

$$O \qquad f(z_o) = \frac{1}{\pi} \int_{0}^{2\pi} f(z_o + \operatorname{Re}^{it}) dt$$

$$O \qquad f(z_o) = \frac{1}{2\pi} \int_{0}^{2\pi} f(z_o + \operatorname{Re}^{it}) dt$$

$$O \qquad f(z_o) = \frac{1}{4\pi} \int_{0}^{2\pi} f(z_o + \operatorname{Re}^{it}) dt$$

$$O \qquad f(z_o) = \frac{1}{2\pi i} \int_{0}^{2\pi} f(z_o + \operatorname{Re}^{it}) dt$$

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0	Continuous partial derivatives
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