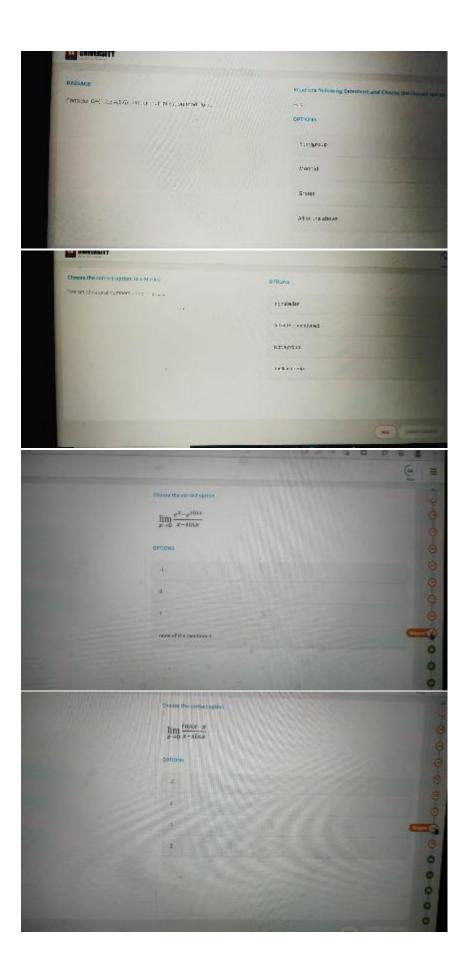
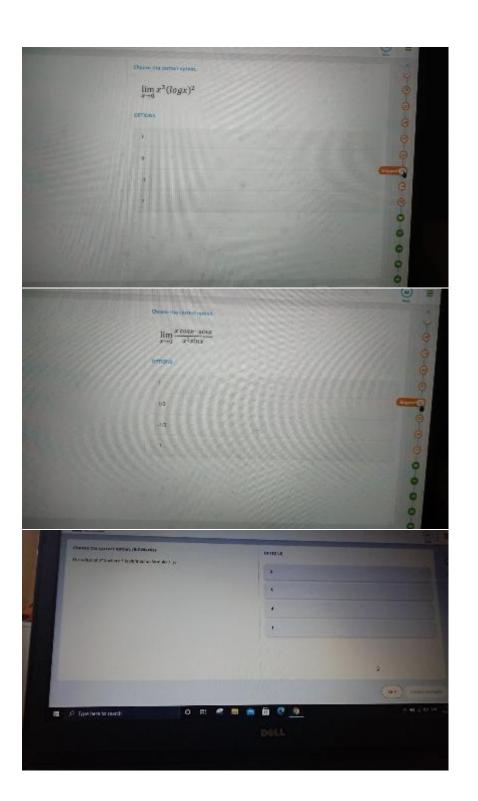
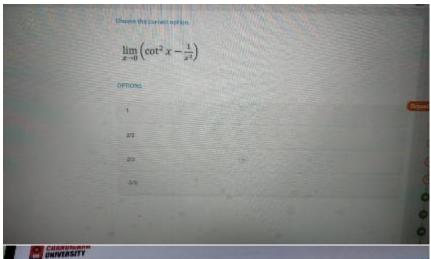
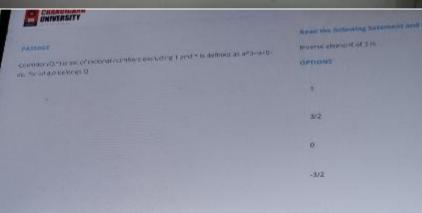


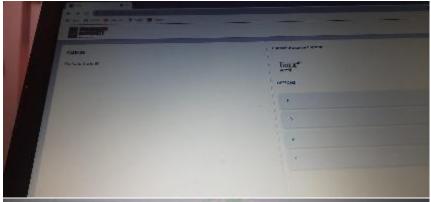
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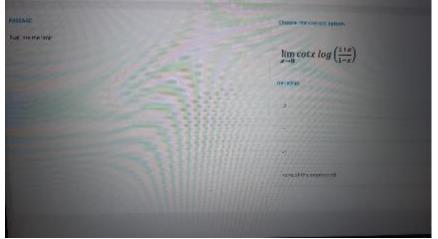


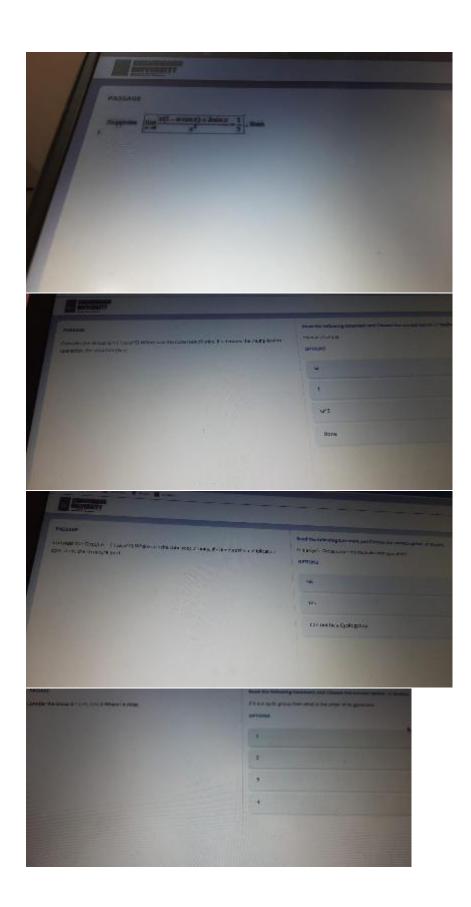


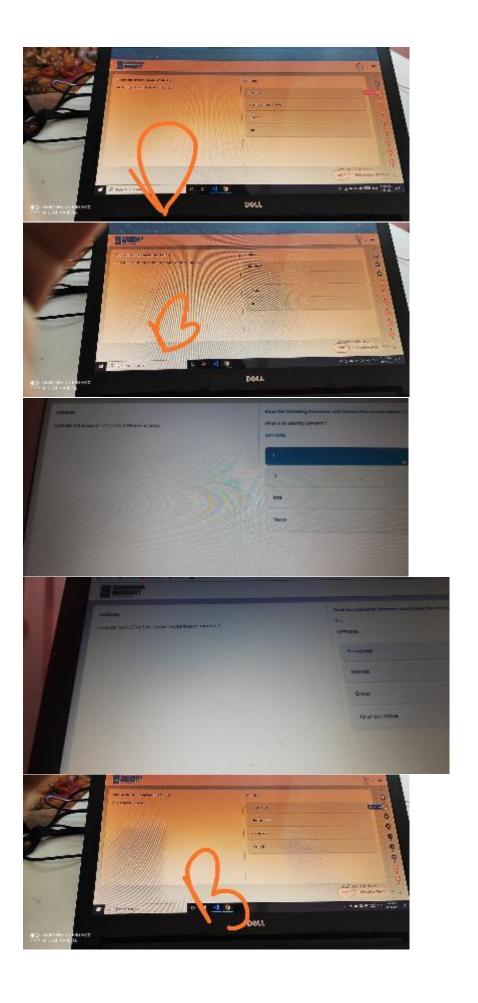


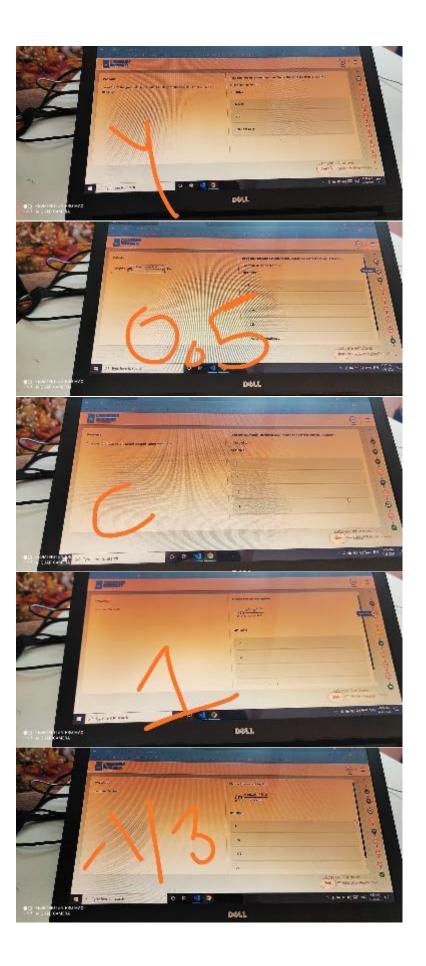


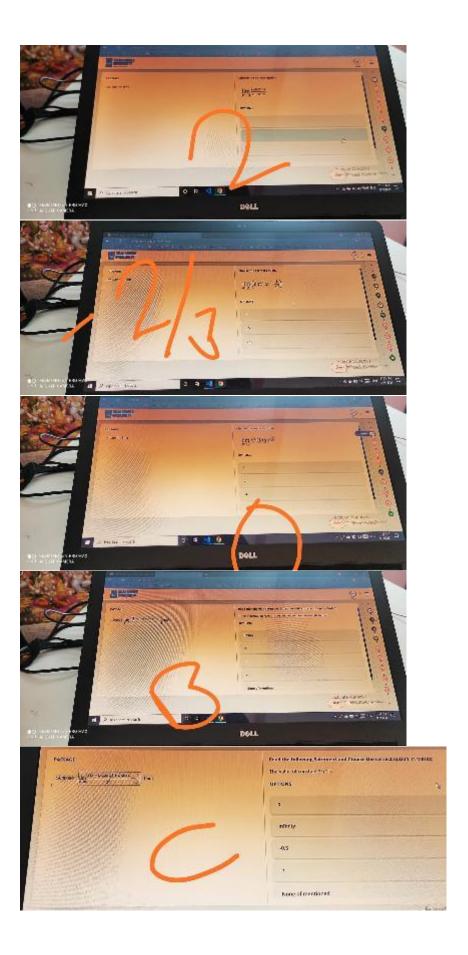


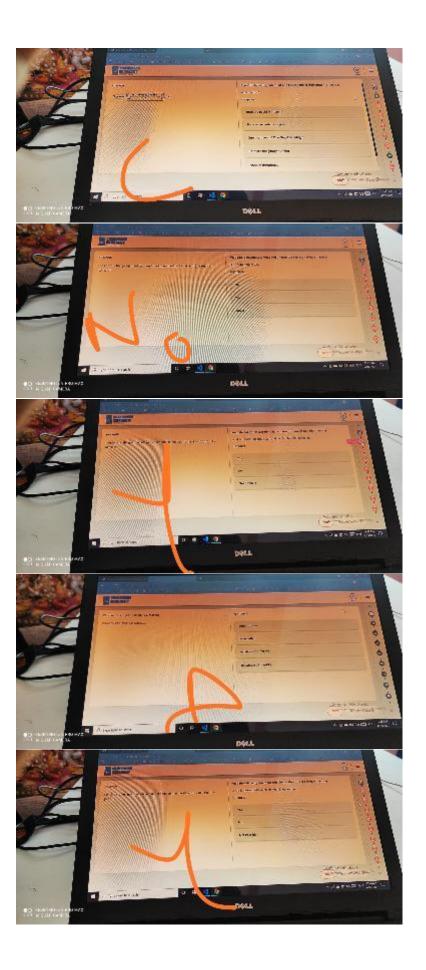


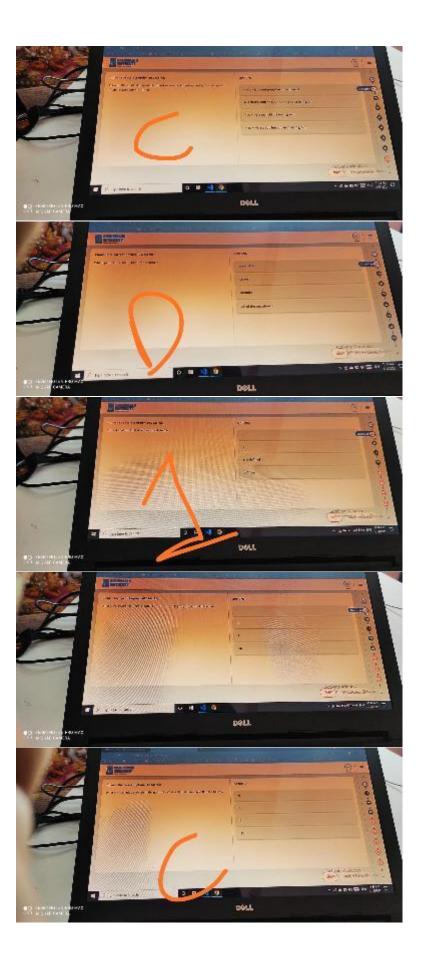


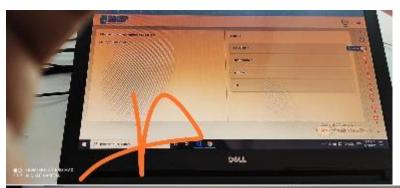






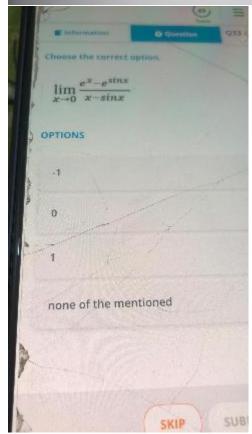


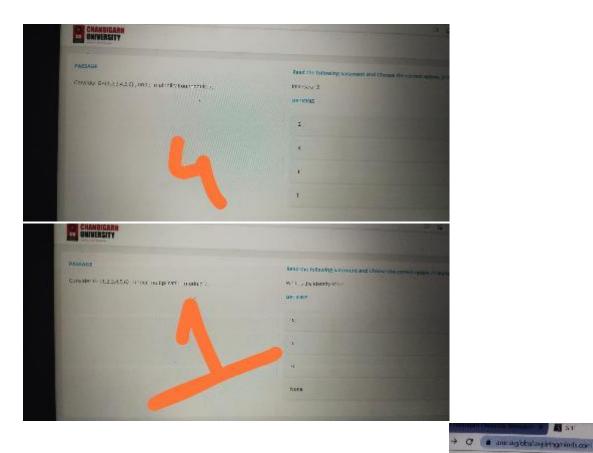


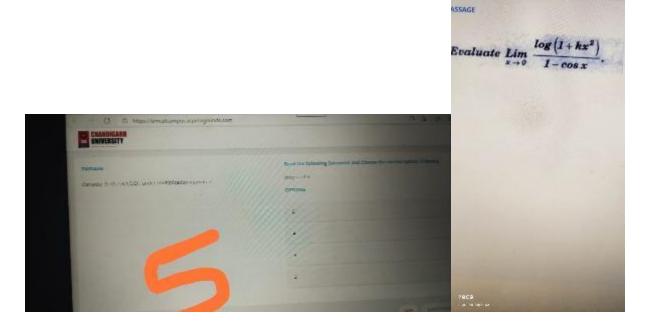


Choose the correct option. (0.5 Marks)

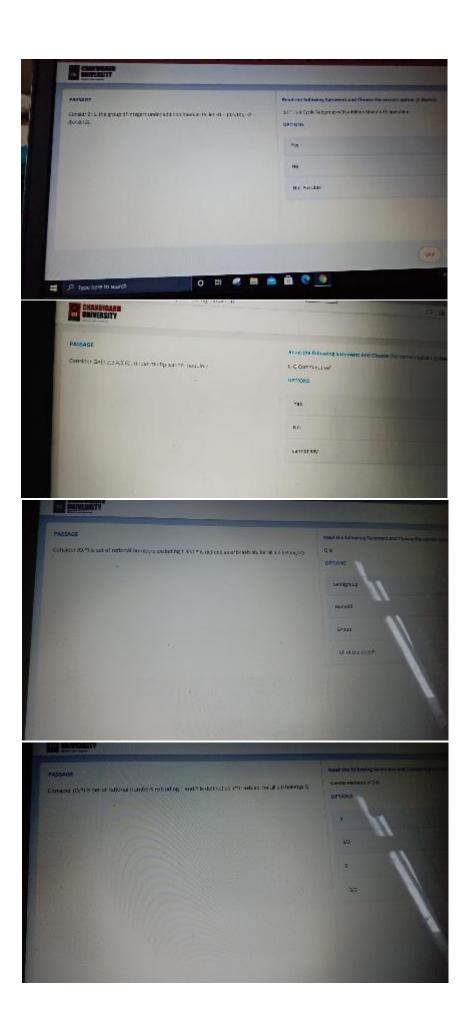
There exist at most subgroups of a group of prime order.

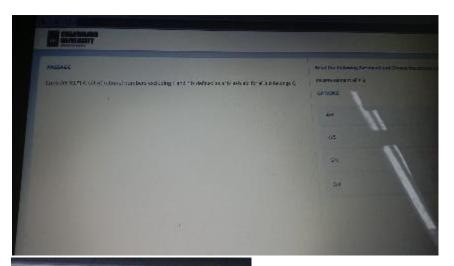


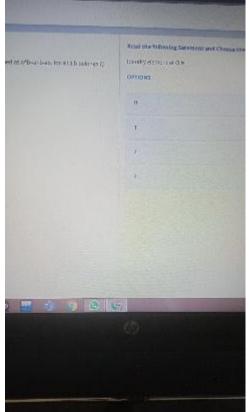


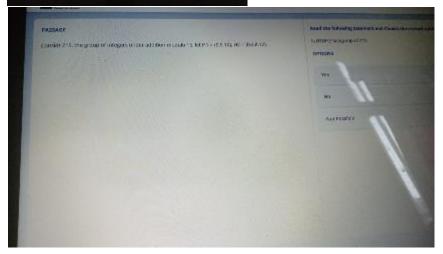


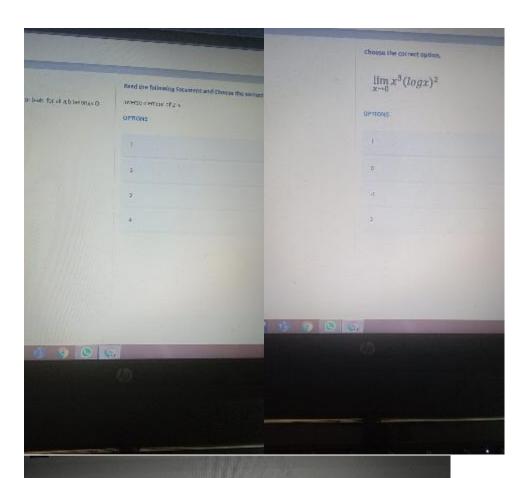
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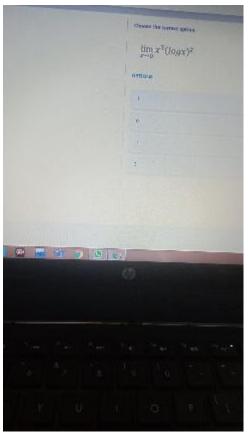


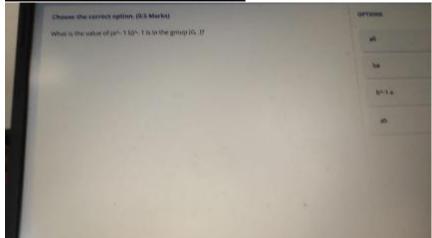


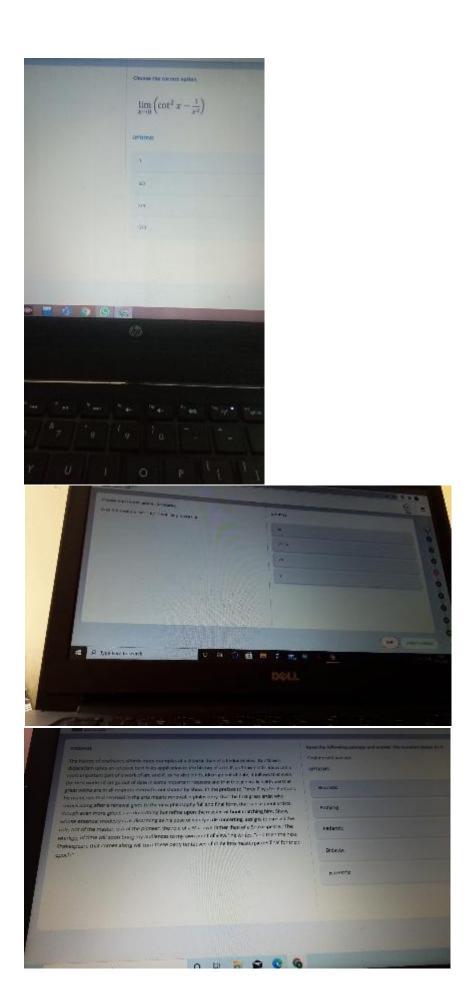


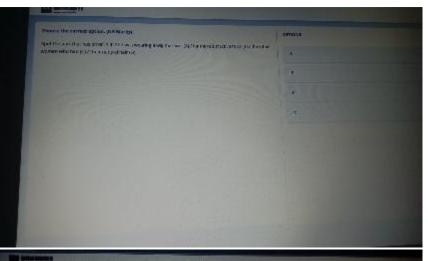
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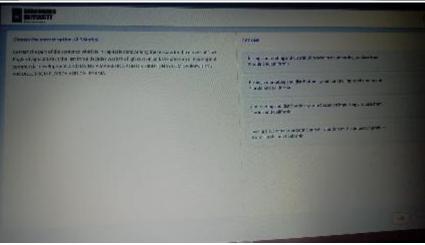
Conside Z15, the group of integers under addition modulo 15, let H1 = {0,5,10}, H2 = {0,4,8,12};

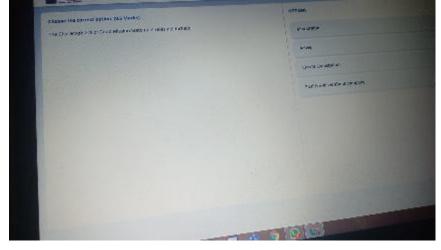


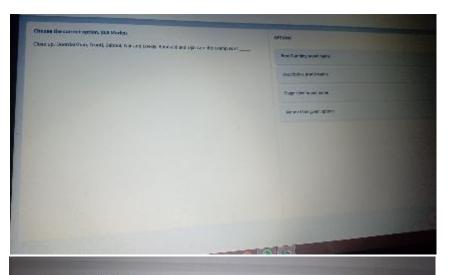














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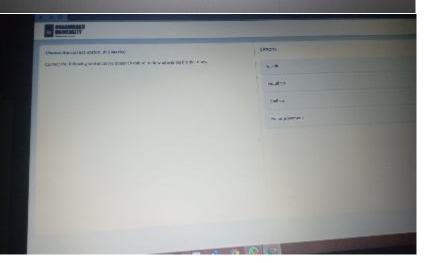
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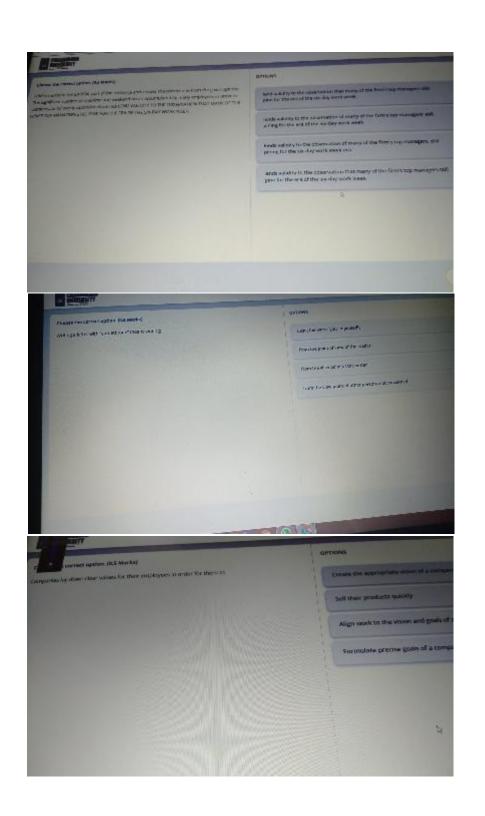
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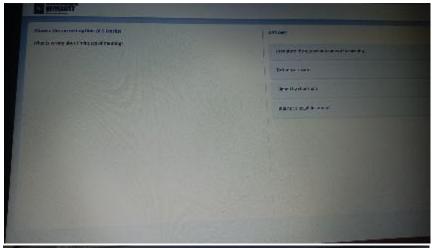
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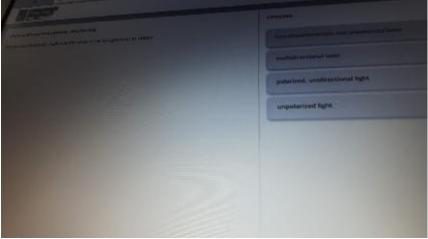
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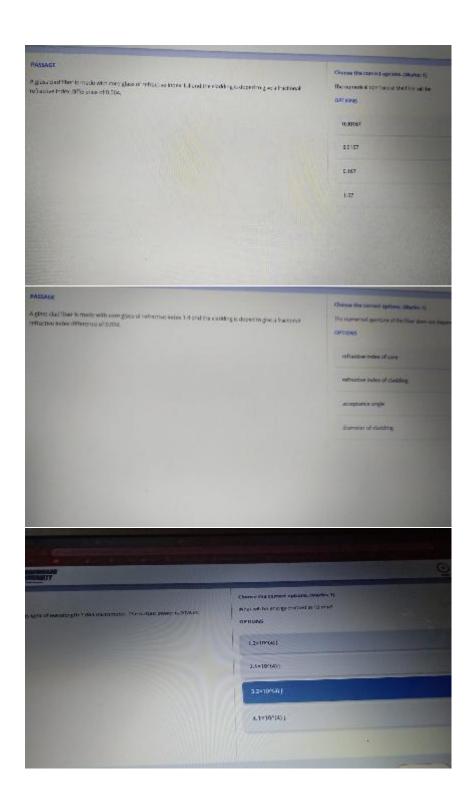


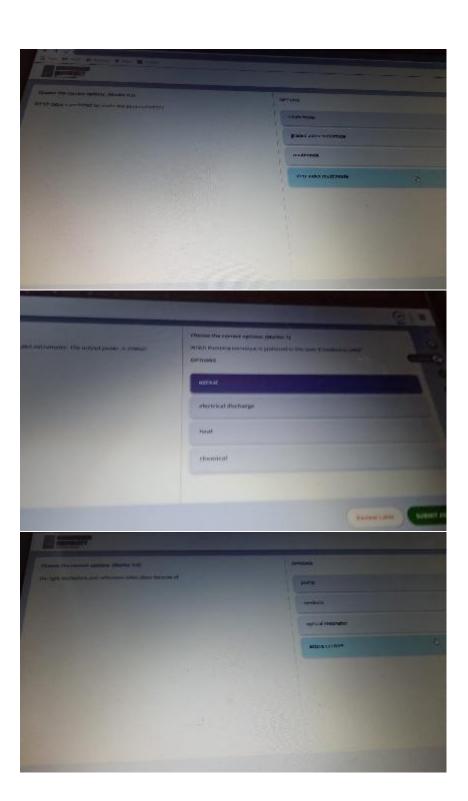


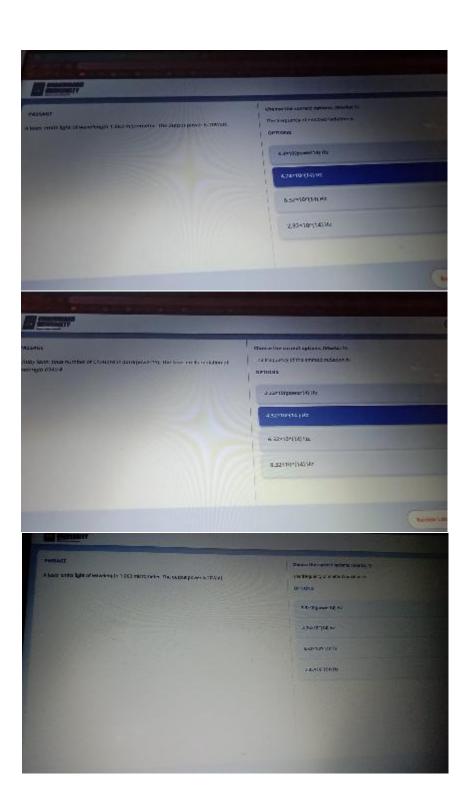


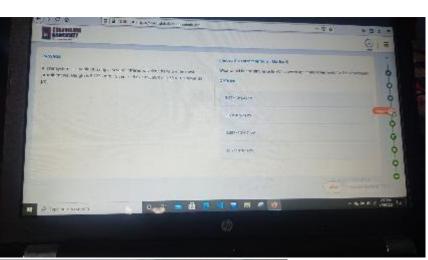


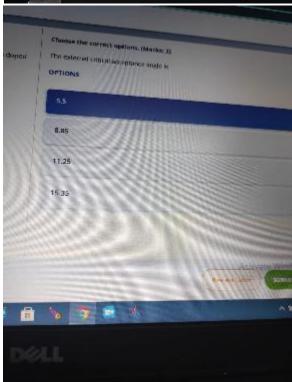
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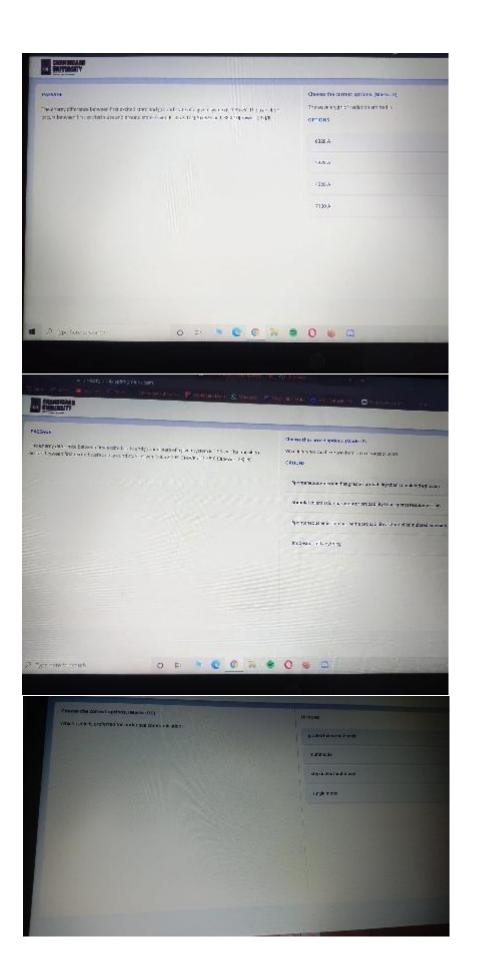


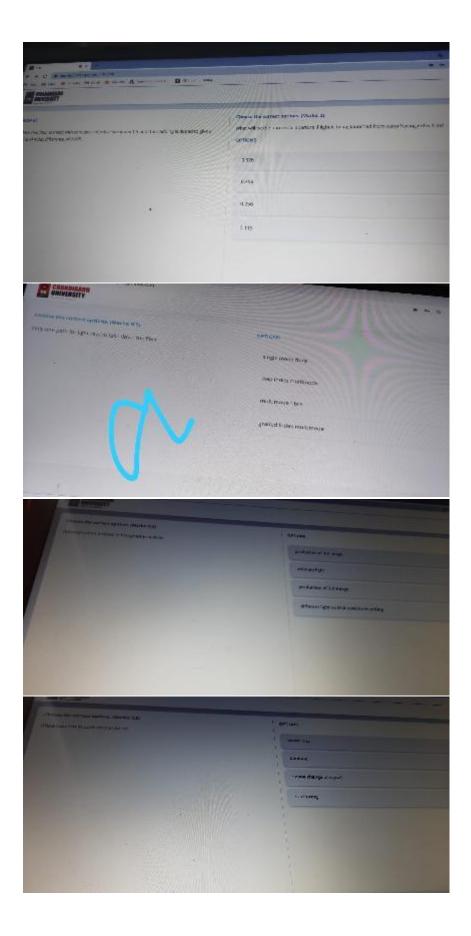


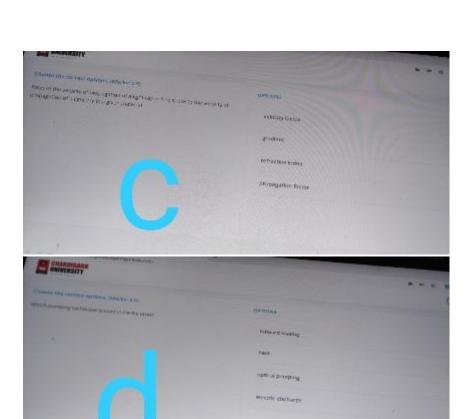


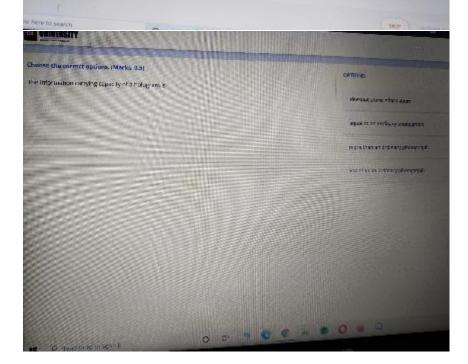


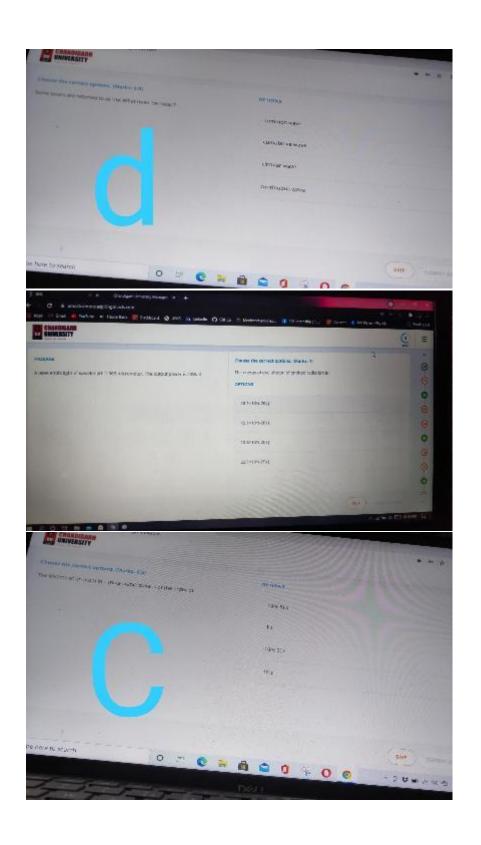


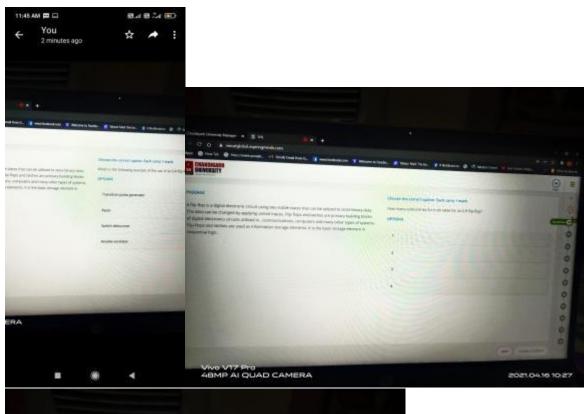


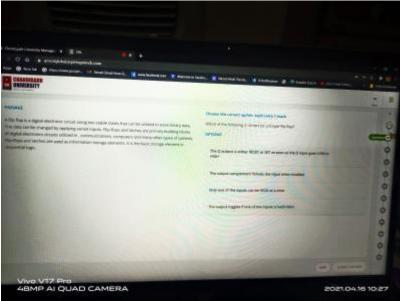


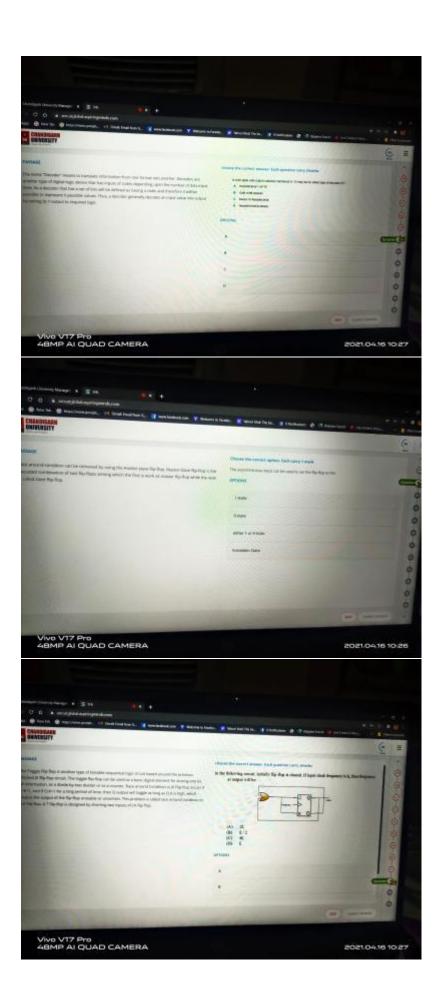


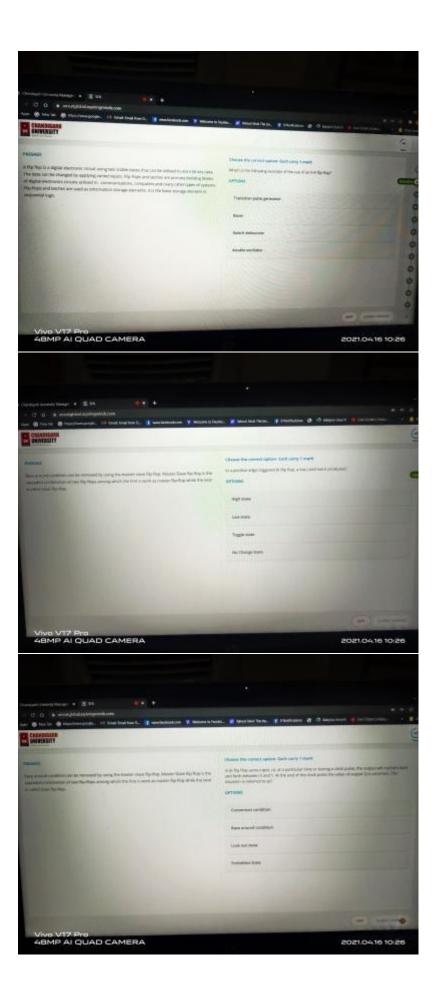


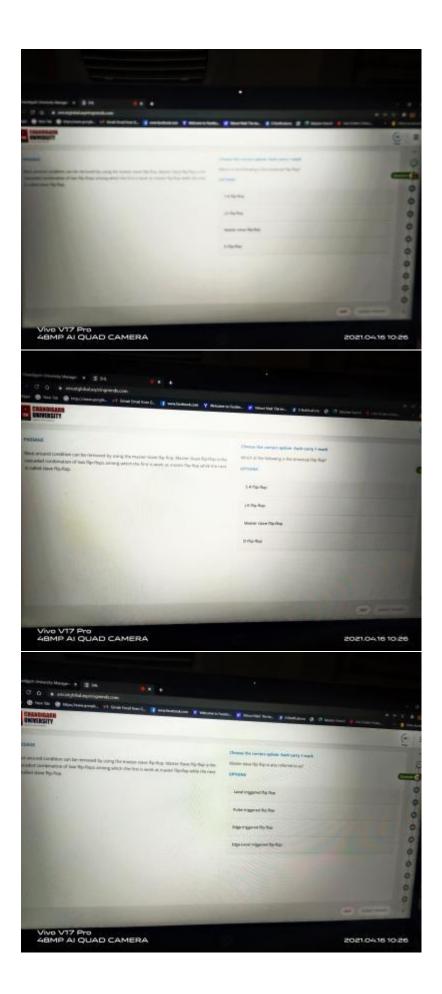


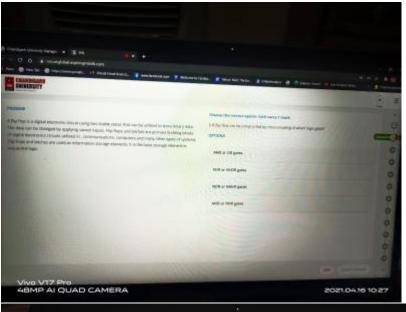


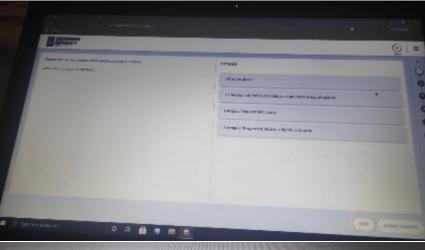


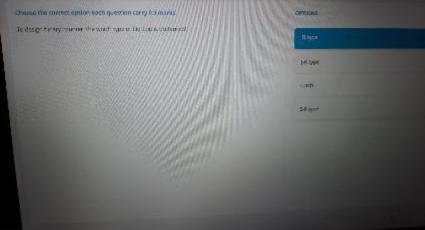


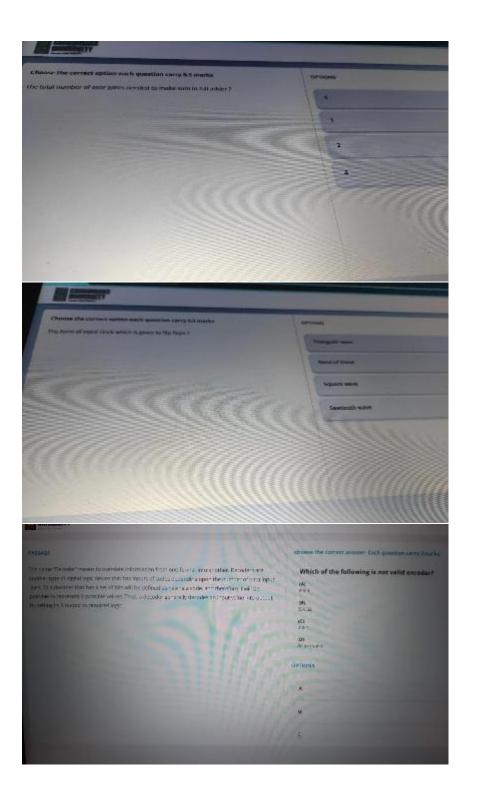


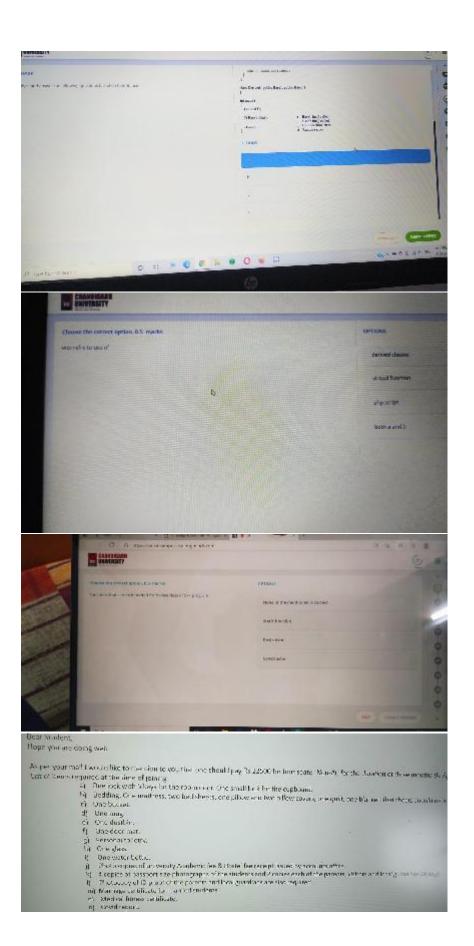


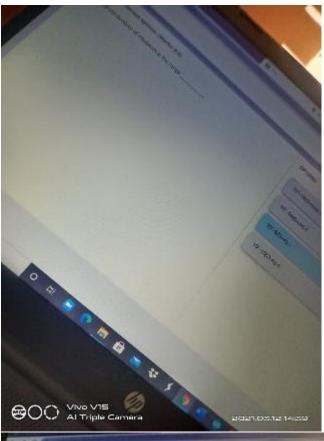


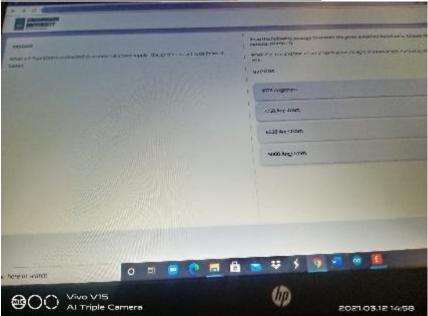


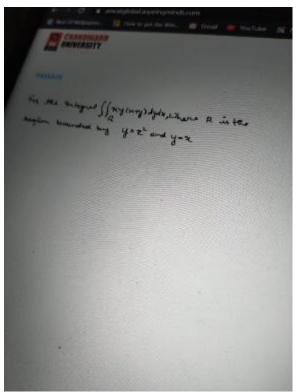


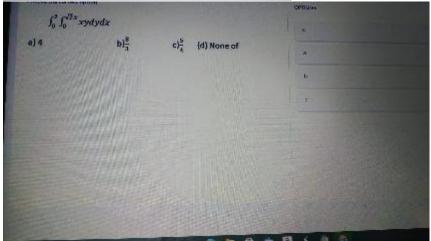


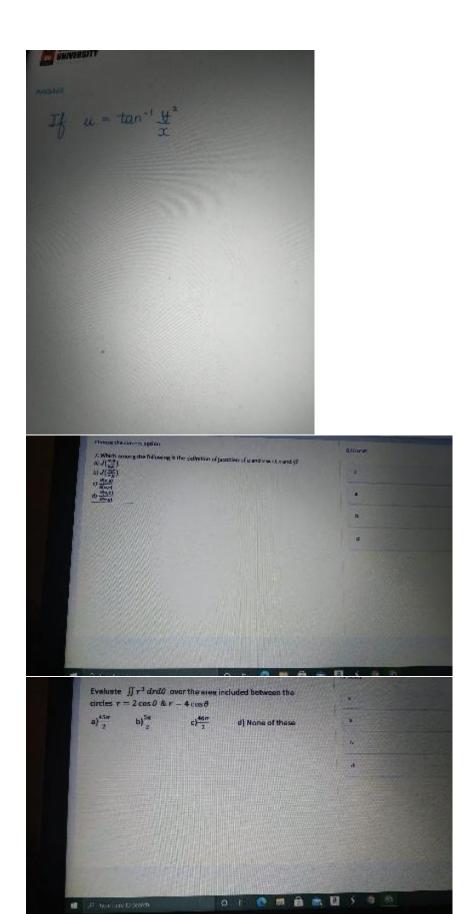


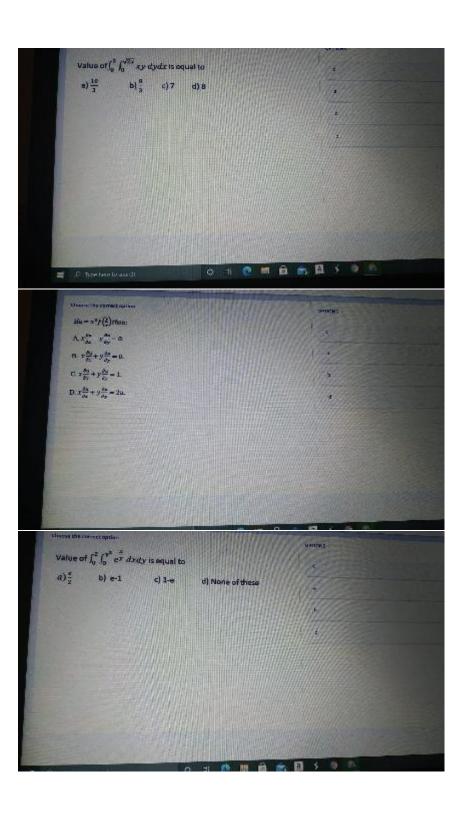












hoose the correct option

Volume bounded by triple integral $x \ge 0$, $y \ge 0$, $z \ge 0$ and $x^2+y^2+z^2=1$ is

a)
$$\frac{4\pi}{3}$$

b)
$$\frac{4\pi r}{3}$$

c)
$$\frac{4\pi r}{6}$$

b)
$$\frac{4\pi r}{3}$$
 c) $\frac{4\pi r}{6}$ d) None of these

Choose the correct option

The triple integral $\int \int \int dx \, dy \, dz$ over R taken over proper limits gives.....

- (a) Volume of the region R
- (b) Area of the region R
- (c) Surface area of the region R
- (d) Density of the region R

Choose the correct option

2. Given
$$u=rac{yz}{x},v=rac{zx}{y},w=rac{xy}{z}$$
 then the value of $rac{\partial(u,v,w)}{\partial(x,y,z)}$ is

- a) 4
- b)-4
- c) 0
- d) 1

Choose the correct option

- 7. Which among the following is the definition of Jacobian of u and v w.r.t x and y?

hoose the correct option

Evaluate $\iint r^3 \, dr d heta$ over the area included between the circles $r = 2\cos\theta \& r = 4\cos\theta$

a)
$$\frac{45\pi}{2}$$

b)
$$\frac{5\pi}{2}$$

c)
$$\frac{46\pi}{2}$$

b)
$$\frac{5\pi}{2}$$
 c) $\frac{46\pi}{2}$ d) None of these

Choose the correct option

Value of $\int_0^2 \int_0^{\sqrt{2x}} xy \, dy dx$ is equal to

a)
$$\frac{10}{3}$$
 b) $\frac{8}{3}$ c) 7 d) 8

b)
$$\frac{8}{3}$$

Choose the correct option

If $u = x^2 + y^2 + z^2$ be such that $u_x + y u_y + z u_z = \lambda u$, then λ is equal to

- A-1
- B. 2
- C. 0
- D. none of above

Choose the correct option

Value of $\int_0^2 \int_0^{y^2} e^{\frac{x}{y}} dxdy$ is equal to

- a) $\frac{e}{2}$ b) e-1 c) 1-e d) None of these

Choose the correct option

- 4. If x=rcos θ , y=rsin θ then the value of $\frac{\partial(x,y)}{\partial(r,\theta)}$ is _
- a) 1
- b) 0
- d) +

Choose the correct option $If x = r \cos \varphi \sin \theta , y = r \sin \varphi \sin \theta , z = r \cos \theta , \text{then the value of } \frac{\partial (x,y,x)}{\partial (r,\theta,\varphi)} \text{ is } ;$ A. 0 B. r C. $r^2 \sin \theta$ D. $r^2 \cos \theta$

Choose the correct option

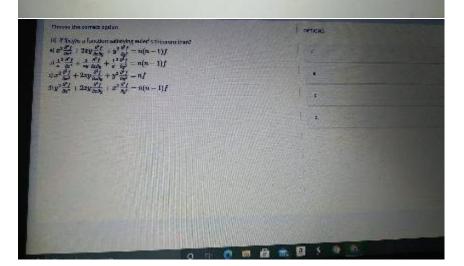
Linear Taylor series polynomial approximation to function $f(x, y) = x^2y - 2$ about point (1,-2)

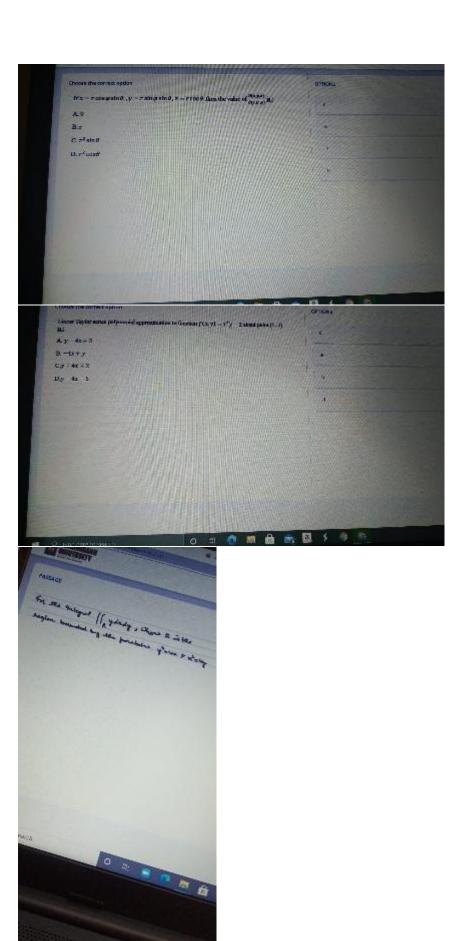
$$A_{y}-4x+2$$

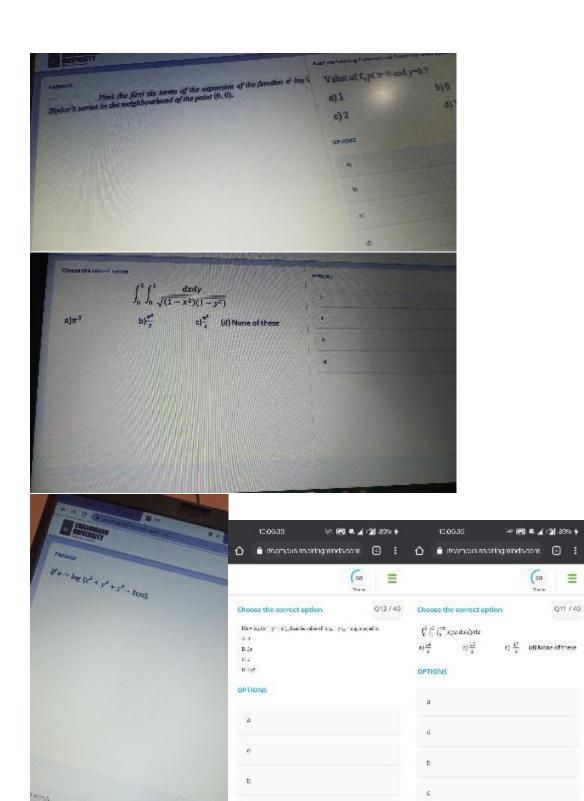
$$B.-4x+y$$

$$C.y + 4x + 2$$

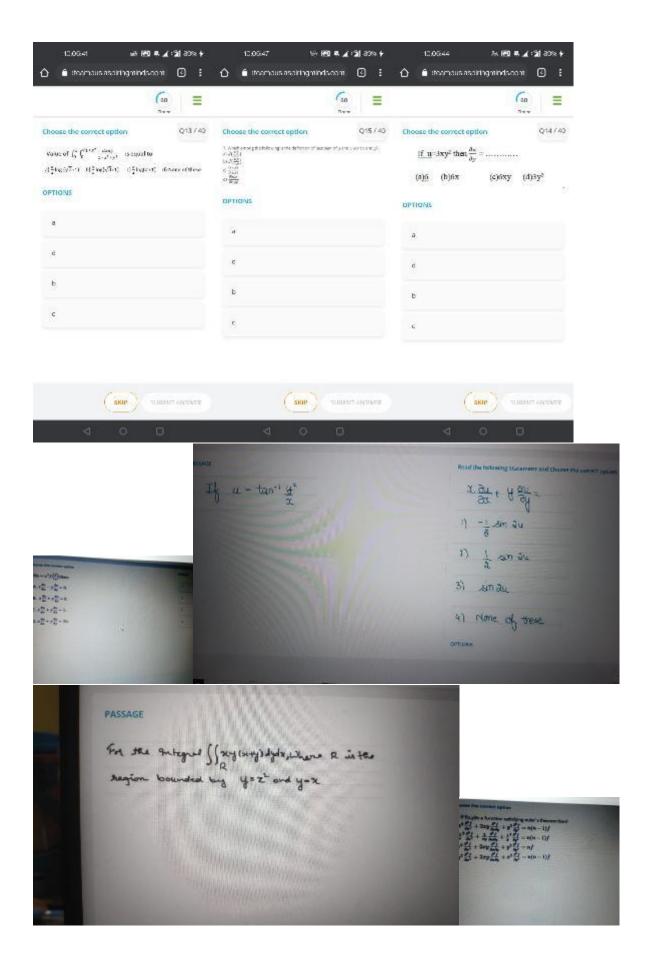
$$D.y - 4x - 5$$

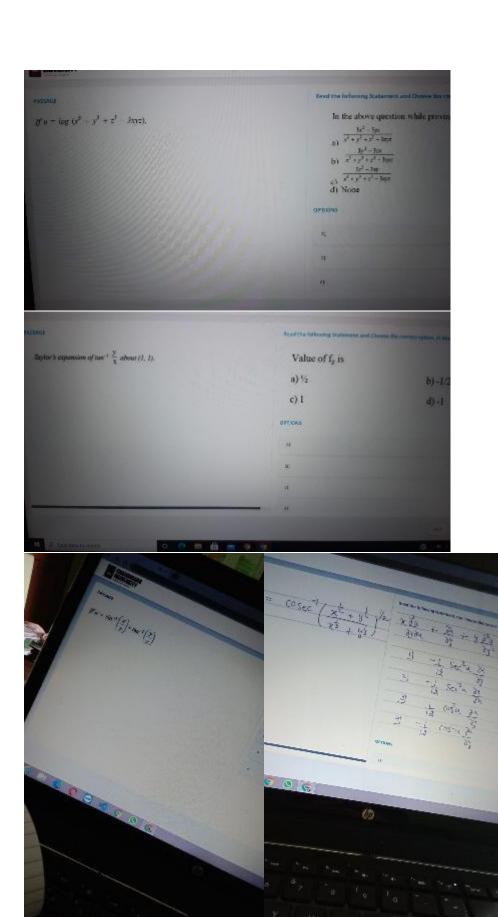


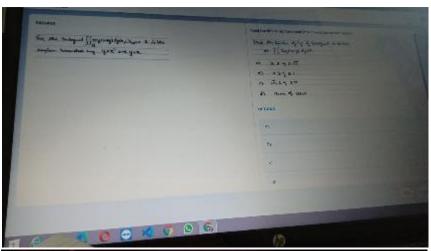


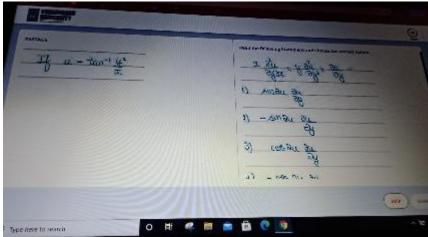


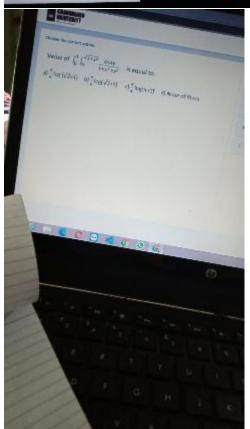
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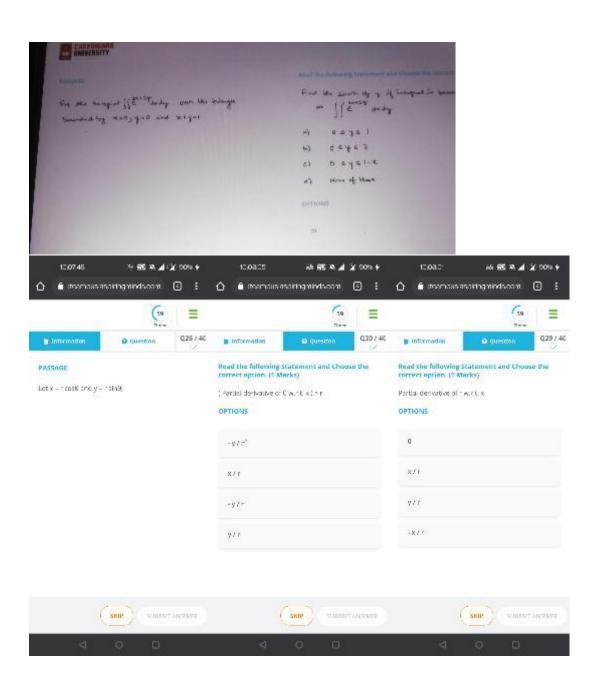


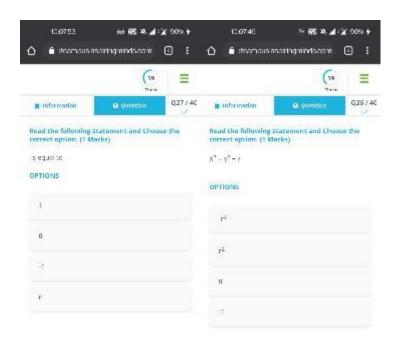


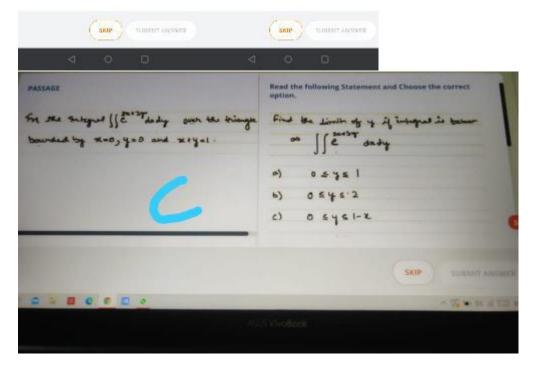


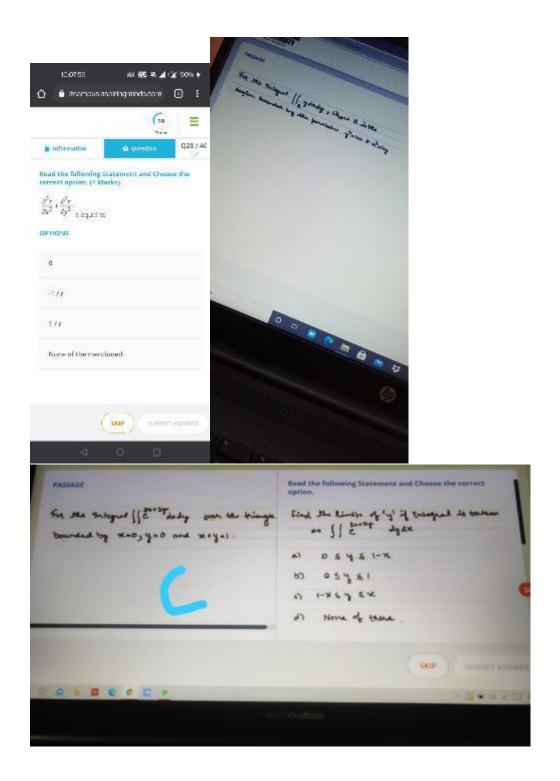


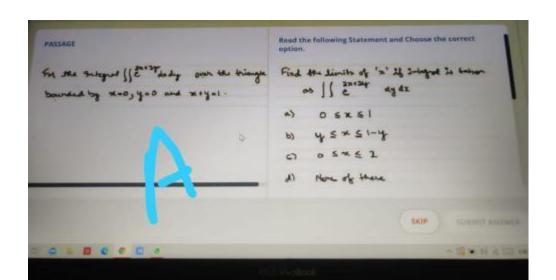




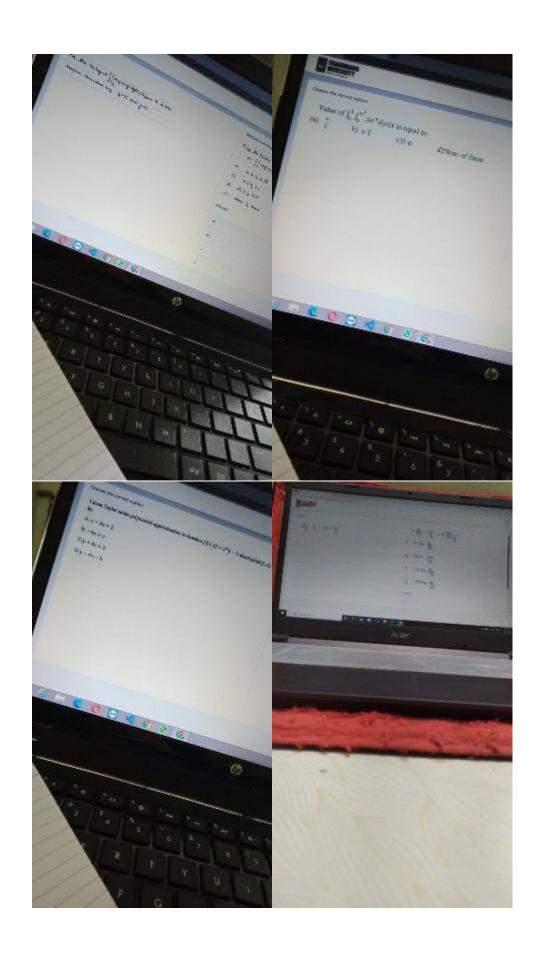


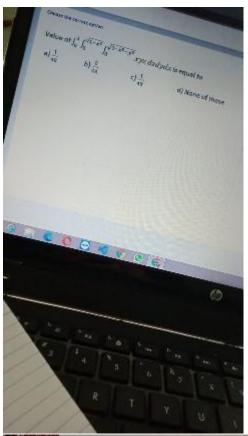




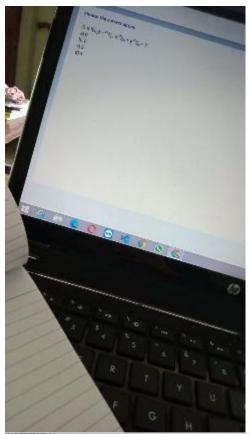


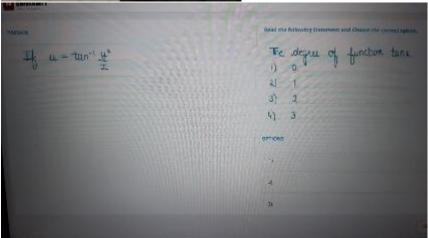


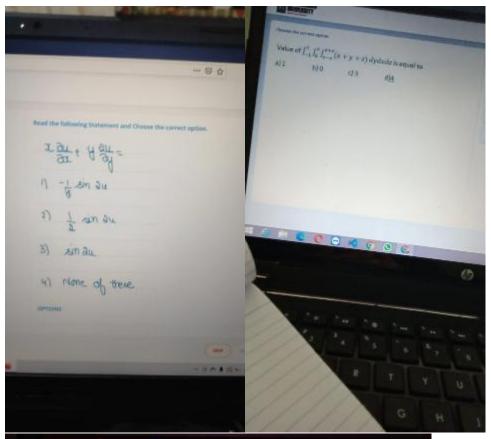


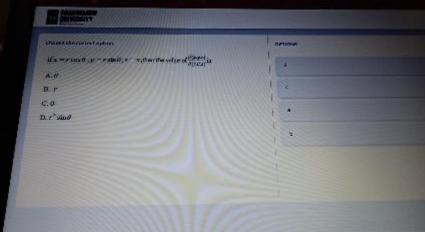


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If u = tan-1 4 "	2) - unau unau
	3) cosau-sinau
	५) - ग्राम्बर्ग स्थापन
	GPHONS
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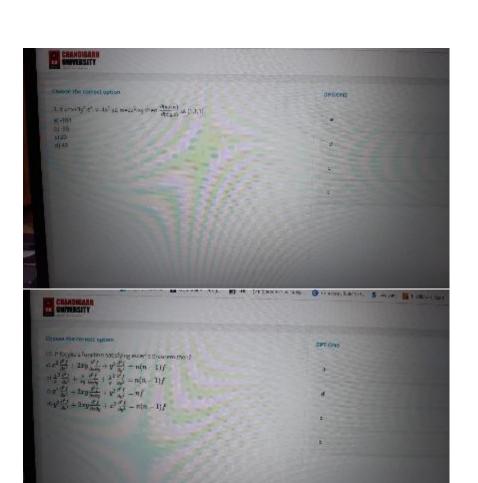


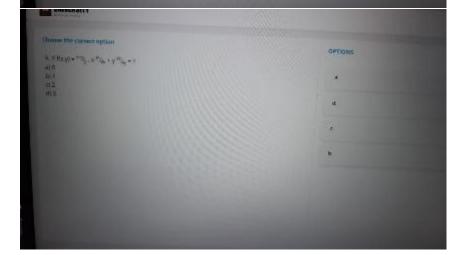


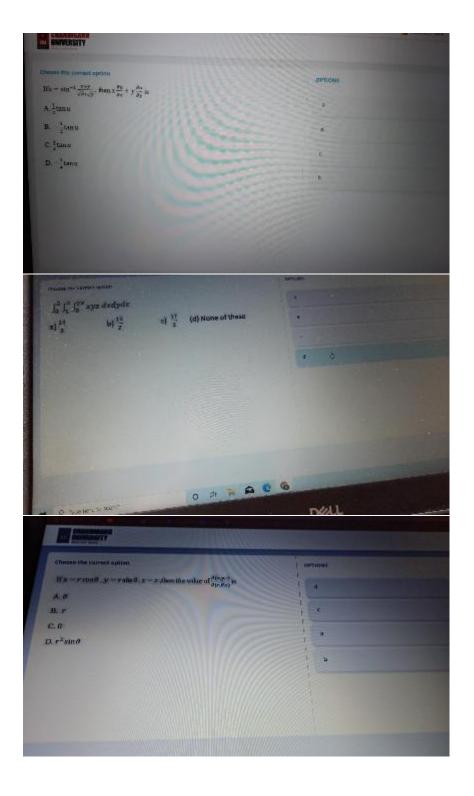


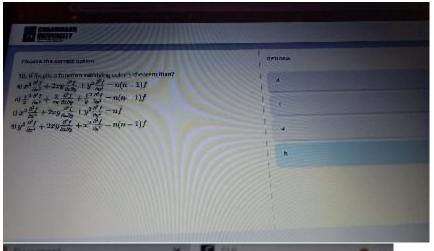


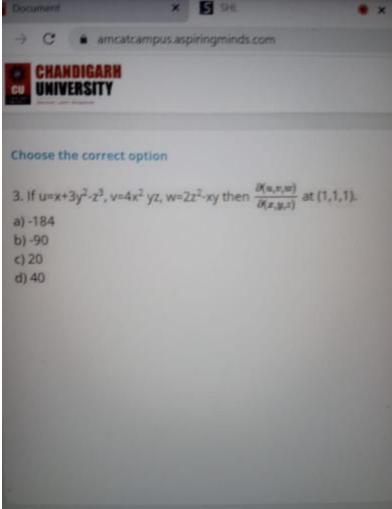
none this correct option.	OPTIONS	
$10x = x^2 f\left(\frac{x}{x}\right) \text{then};$		
A 7# - 7 00 - 0		
B. $z \frac{dx}{dx} + y \frac{dx}{dy} = 0$.		
$\mathbb{C}_{+} \times \frac{2\alpha}{6\alpha} + \chi \frac{4\alpha}{6\gamma} - 1.$		
$D_{r}x_{n_{T}}^{2n}+y\frac{\alpha_{0}}{a_{2}}=2m$	*	

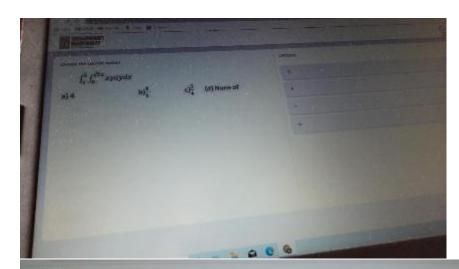












CHANDIGARH UNIVERSITY

$$c_{H} = \sin^{-1}\left(\frac{x}{y}\right) + \tan^{-1}\left(\frac{y}{x}\right)$$

Read the following Statement and Choose

Then
$$x \frac{\partial u}{\partial x}$$

a)
$$\frac{x}{\sqrt{y^2 - x^2}} - \frac{xy}{x^2 + y^2}$$

$$\frac{1}{\sqrt{y^2 - x^2}} - \frac{y}{x^2 + y^2}$$

- c) 0
- d)-1

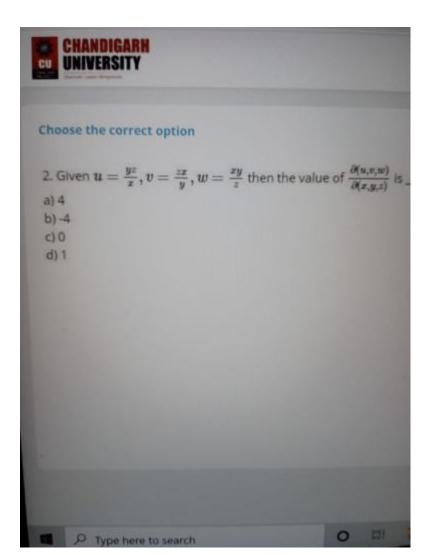
Choose the correct option

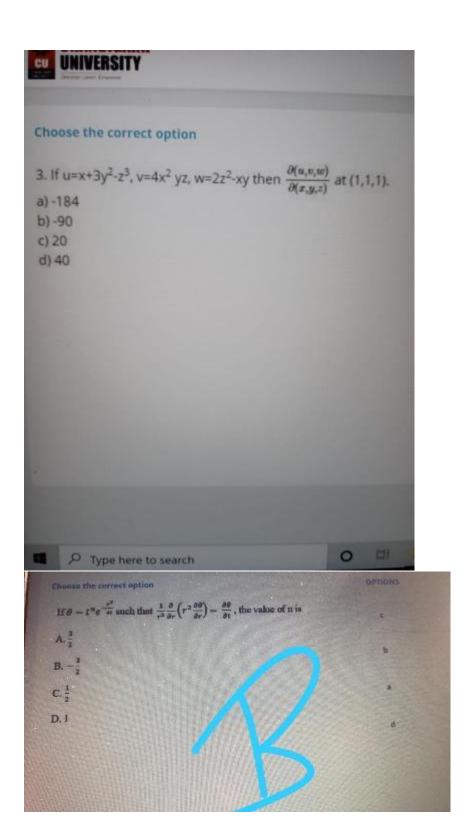
6. If $u+v=e^x$ cosy and $u-v=e^x$ sin y the value of $J(\frac{u,v}{x,y})$ is _ a) e^{2x} b) $\frac{e^2x}{2}$ c) $\frac{-e^3x}{2}$



Choose the correct option

- 2. $f(x, y) = \sin(xy) + x^2 \ln(y)$ Find f_{yx} at $(0, \frac{\pi}{2})$ a) 33
- b) 0
- c) 3
- d) 1





$$f_{H} = \sin^{-1}\left(\frac{x}{y}\right) + \tan^{-1}\left(\frac{y}{x}\right)$$

Read the following Statement and

Then
$$y \frac{\partial u}{\partial y}$$

a)
$$\frac{x}{\sqrt{y^2 - x^2}} + \frac{xy}{x^2 + y^2}$$

a)
$$\frac{x}{\sqrt{y^2 - x^2}} + \frac{xy}{x^2 + y^2}$$

b) $\frac{1}{\sqrt{y^2 - x^2}} - \frac{y}{x^2 + y^2}$



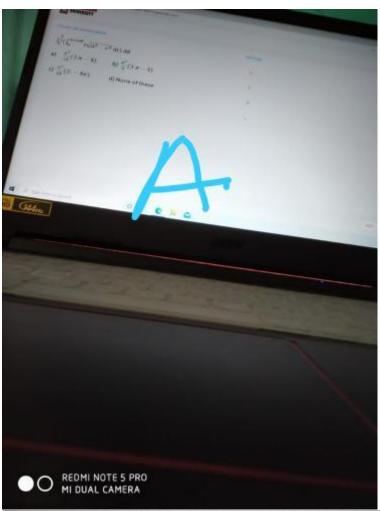
ASSAGE

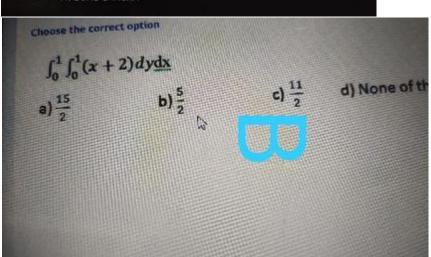
Taylor's expansion of $\tan^{-1} \frac{y}{x}$ about (1, 1).

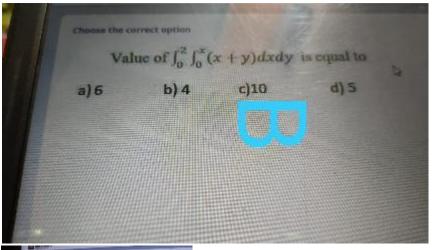
Read the following States

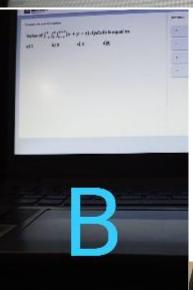
Value of fyy is

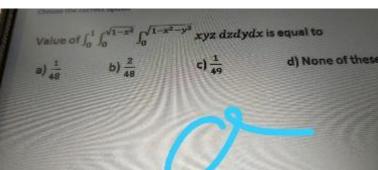
OPTIONS







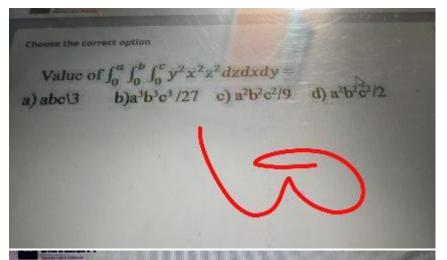




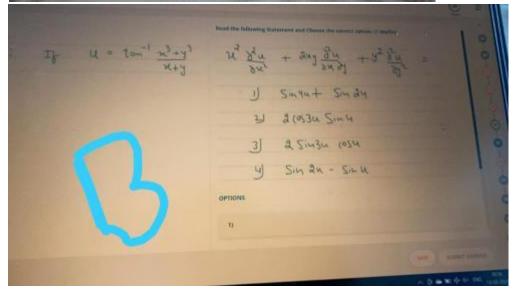
Degree of the homogeneous function $u = ax^2 + 2hxy + by^2$ is ...

(a) 1 (b) 2 (c) 3 (d) 4

b



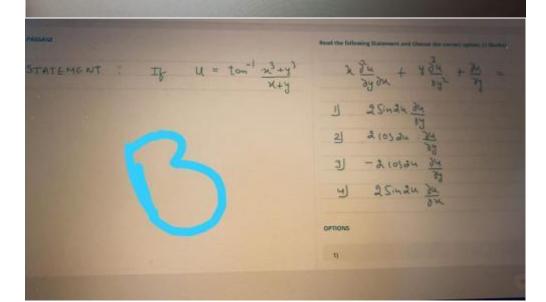
Choose the correct option $\text{If } x = r \cos \theta \text{ , } y = r \sin \theta, z = z \text{, then the value of } \frac{\theta(x,y,z)}{\theta(r,\theta,z)} \text{ is }$ A. θ B. r C. θ D. $r^2 \sin \theta$



Choose the correct option

If u is a homogeneous function of order n, then and and and and and and are between the order:

A.n

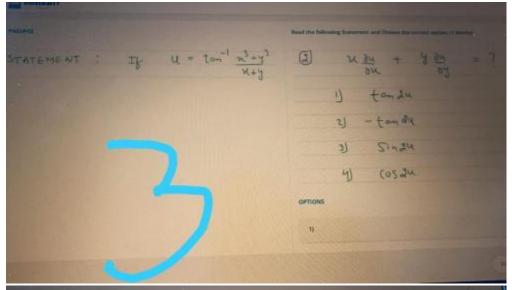


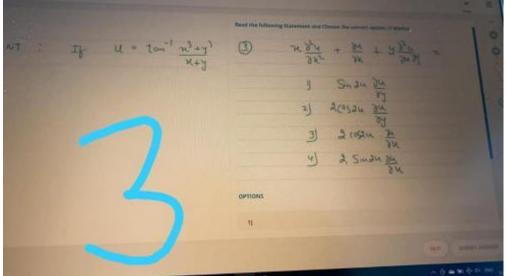
cheese the correct option

$$\int_0^{\pi} \left(\int_0^{a\cos\theta} r \sqrt{a^2 - r^2} \, dr \right) d\theta$$

a)
$$\frac{a^3}{18}(3\pi-4)$$
 b) $\frac{a^2}{9}(3\pi-4)$

c)
$$\frac{a^3}{18}(3-4\pi)$$
 d) None of these





the Antegral Stry(ong)dyda, when is in the low to bounded by yer's and yer.



Read the following Statement and Choose the server agrees

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- A) 05 x 5 1
- 1) 4 = x 5 IT
- o sx = Fr
- a) None of Home

OPTIONS

W

: b

