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Question 6

$$u = F(y-z, z-x, x-y)$$
 then $\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y} + \frac{\partial u}{\partial z}$ is equal to

Hide answer choices ^

Question 7



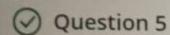
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If
$$u = xyf\left(\frac{y}{x}\right)$$
 then $x\frac{\partial u}{\partial x} + y\frac{\partial u}{\partial y} =$

Hide answer choices ^



Question 6

$$u = F(v-z, z-x, x-v)$$
 then $\frac{\partial u}{\partial x} + \frac{\partial u}{\partial x} + \frac{\partial u}{\partial x}$ is equal to



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Question 4

If
$$z = f(x,y)$$
, $x = \emptyset(t)$, $y = \psi(t)$ then $dz/dt =$

Hide answer choices ^

$$\mathbf{A} \qquad \frac{\partial z}{\partial x} \frac{dx}{dt} + \frac{\partial z}{\partial y} \frac{dy}{dt}$$

$$\bigcirc \frac{\partial z}{\partial x} + \frac{\partial z}{\partial y} \frac{\partial y}{\partial t}$$



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Question 3

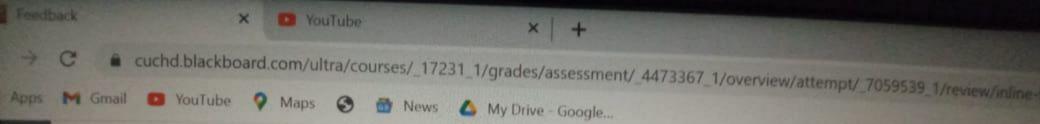
If
$$u = e^{ax + by}$$
 then $\frac{\partial^2 u}{\partial y \partial x}$ is

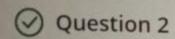
Hide answer choices ^

- abu
- None

Question 4

If z = f(x,y), $x = \emptyset(t)$, $y = \psi(t)$ then dz/dt =





1/1

. What is the degree of homogeneous function
$$f(x,y) = \frac{x^{\frac{1}{3}} + y^{\frac{1}{3}}}{x^{\frac{1}{2}} + y^{\frac{1}{2}}}$$

Hide answer choices ^



- A -1/6
- B) 1/6
- C) 5/6
- D -5/6

Question 3

1/1

Assignment Content





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Question 1

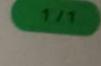
If
$$u = x^3 + y^3$$
 then $\frac{\partial^2 u}{\partial x \partial y}$ is

Hide answer choices A

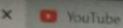
- C) 3x+3y
- 0

Question 2

. What is the degree of homogeneous function
$$f(x,y) = \frac{x^{\frac{1}{3}} + y^{\frac{1}{3}}}{1}$$











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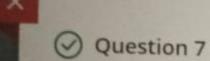








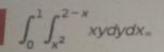
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$$\frac{\sqrt{x} - \sqrt{y}}{\sqrt{x} + \sqrt{y}}$$
 is homogeneous function of degree is

Hide answer choices .





Hide answer choices ^

- (A) 3/4
- B 3/2
- G 3/8
- D 3/5

Question 45

Which of the following statement is true?

Show answer choices ~

1/1





























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Question 43

Find the fifth non-zero term of the Maclaurin expansion of the exponential function ex

Hide answer choices A

$$\bigcirc A \frac{x^5}{5}$$

$$\bigcirc$$
 B $\frac{\chi^5}{5!}$

$$G \frac{x^4}{4!}$$











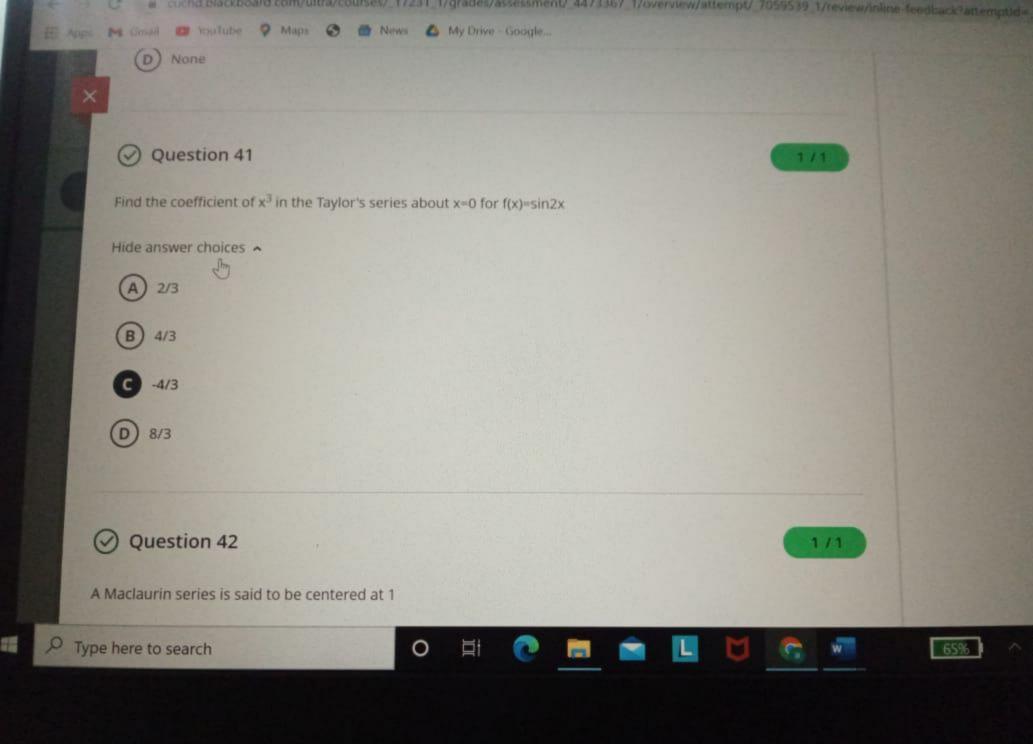


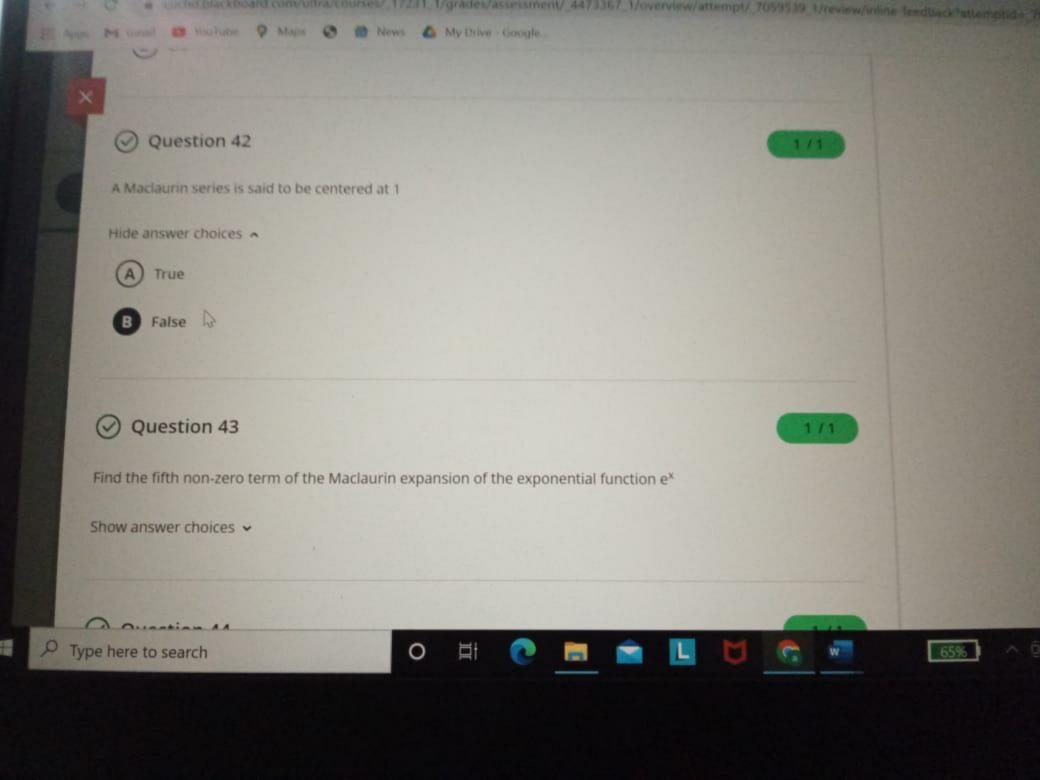


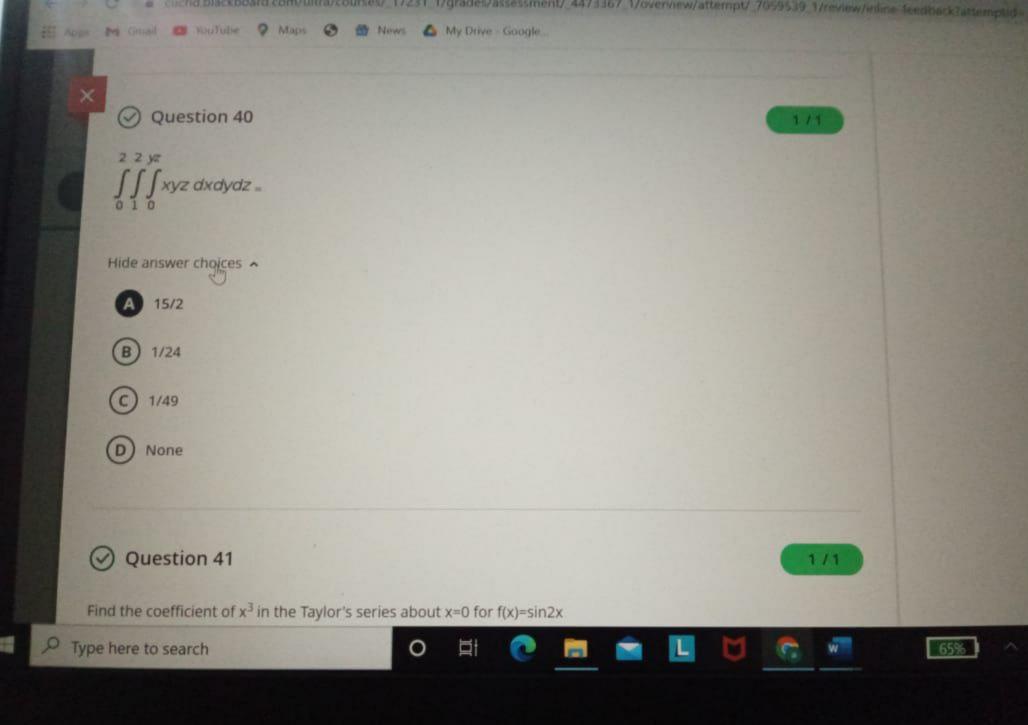


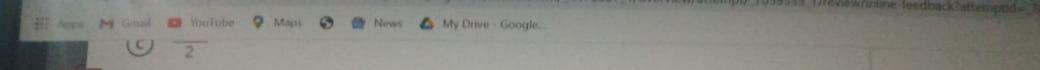












- D None
- Question 39

Evaluate $\iint_R xydxdy$ where $R = \{(x,y) : |x| + |y| \le 1\}$

Hide answer chaices ~

- A
- (B) 0
- (C) 3
- D None

Ouestion 40

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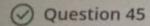












Which of the following statement is true?

Hide answer choices ^

B
$$\int_0^1 \int_0^3 (x+5) dy dx = \int_0^3 \int_0^1 (x+5) dr dy$$

None











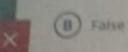












Question 37

1/1

Evaluate $\iint r^2 dr d\theta$ over the area included the circle $r = 2\sin\theta$ and $r = 4\sin\theta$

Hide answer choices A

- (A)
- $B \frac{5\pi}{25}$
- $\bigcirc \frac{46\pi}{3}$
- D None











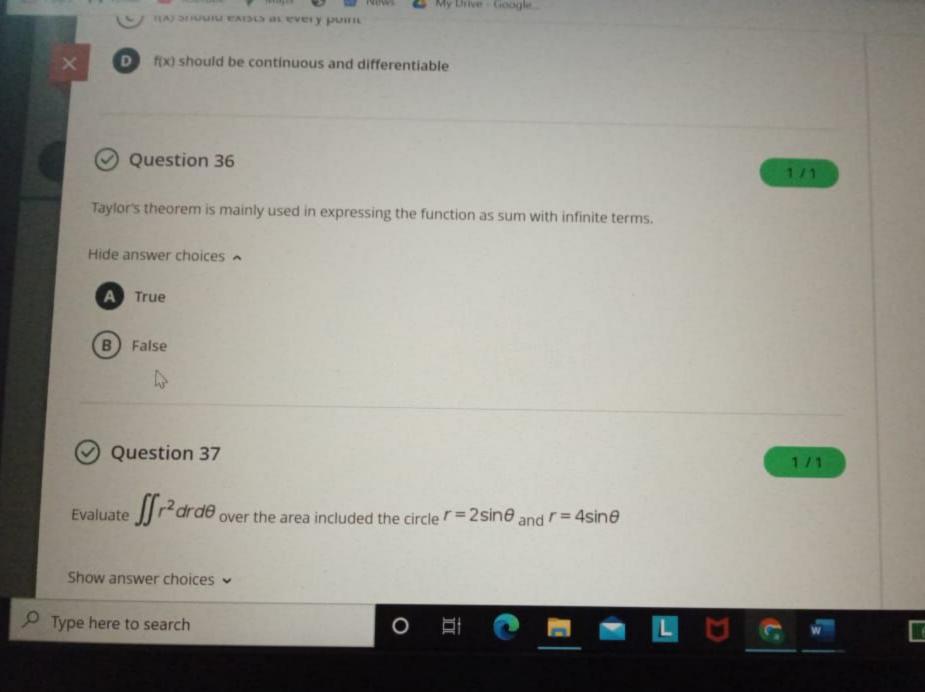


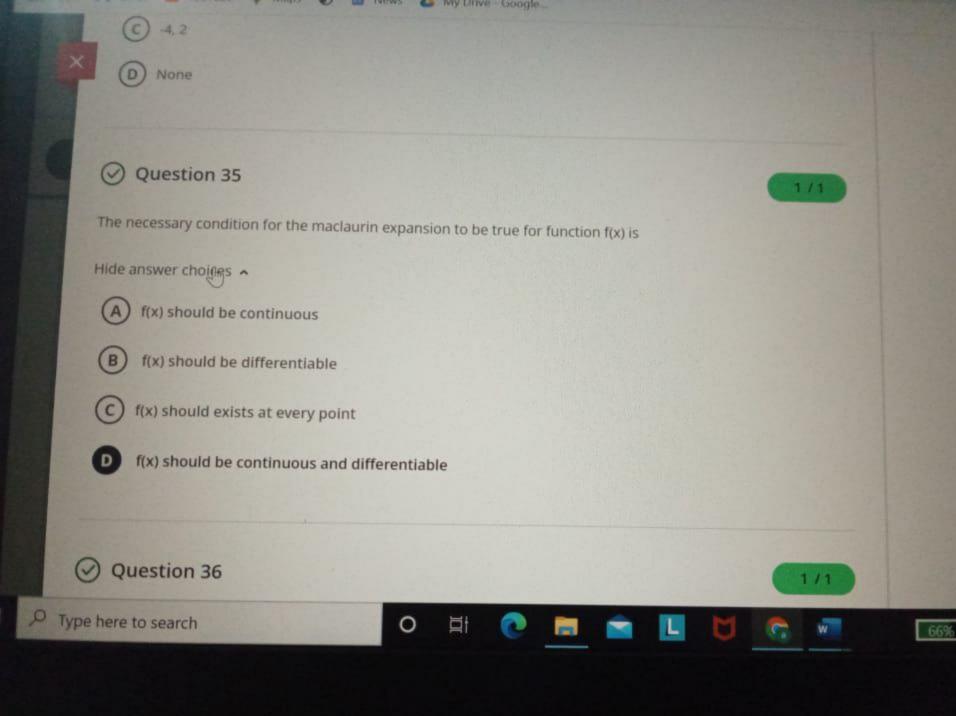














- D None
- **Question 34**

1/1

To expand $x^2 + 2xy + y^3$ in powers of x-4 and y+2 by Taylor's theorem the values of h and k are (respectively)

Hide answer cholles .

- A 4, 2
- B 4, -2
- C -4, 2
- D None

Question 35

1/1

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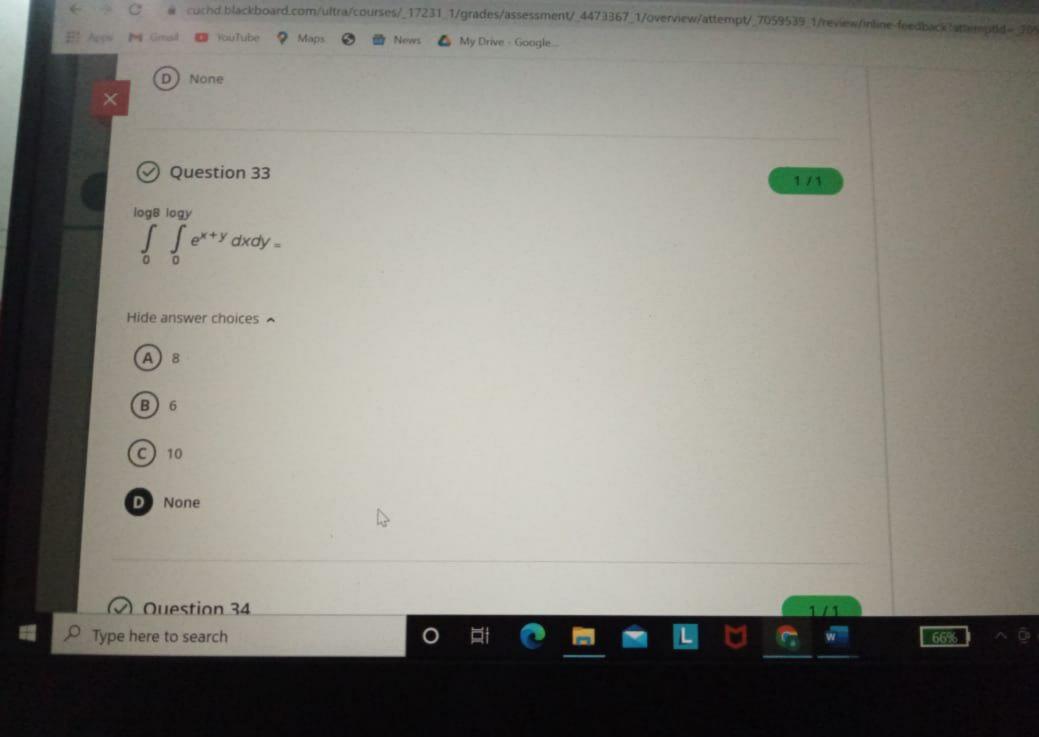












Hide answer choices ^

$$\frac{\pi}{4}\log(\sqrt{2}+1)$$

$$\frac{\pi}{4}\log(\sqrt{3}+1)$$

(B)
$$\frac{\pi}{4}\log(\sqrt{3}+1)$$

$$\bigcirc$$
 $\frac{\pi}{4}\log(\pi+1)$

None

Question 33

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