







Single variable calculus

7 Correct total points:100 questions:10

Result

Passing score not reached, please try again 2



Detailed ☆

Mistakes

What's your full name?

Imroatus Sholihah

What's your email address?

imroatus020@gmail.com

Input your phone number

6285735939628

Country?

Indonesia

1.

x	0	2	4	6
f(x)	4	k	8	12

The function f is continuous on the closed interval [0, 6] and has the values given in the table above.

The trapezoidal approximation for $\int_0^6 f(x) dx$ found with 3 subintervals of equal length is 52. What

is the value of k?

10 Points

- **O** 2
- **O** 6
- **O** 7
- **1**0
- O 14



+10 Points

2.

The *n*th derivative of a function f at x = 0 is given by $f^{(n)}(0) = (-1)^n \frac{n+1}{(n+2)2^n}$ for all $n \ge 0$. Which of the following is the Maclaurin series for f?

10 Points

- OA
- **O** B
- **O** C
- D
- OE



+10 Points

3.

Let
$$f(x)=\left(x^2-3x+2\right)^n\cosrac{\pi x^2}{16},$$
 we find $f^{(n)}(2)=$ _____

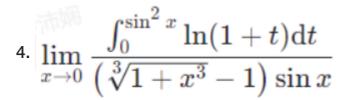
10 Points

10 Points

- **O** A
- **O** B
- C
- O D



+0 Points



- **O** A
- **O** B
- **O** C
- O D
- Correct Answer

+10 Points

5.

Let f(x) be differentiable on [a,b] and f'(a)f'(b) < 0.

- (1) There exists at least one point $\,x_0 \in (a,b)\,$ such that $\,f(x_0) < f(a)$;
- (2) There exists at least one point $x_0 \in (a,b)$ such that $f(x_0) > f(b)$;
- (3) There exists at least one point $x_0 \in (a,b)$ such that $f'(x_0) = 0$;
- (4) There exists at least one point $\,x_0\in(a,b)\,$ such that $\,f(x_0)=rac{1}{2}[f(a)+f(b)]\,$.

The number of correct statements is ().

10 Points

- 0 1
- 0 2
- **3**
- O 4
- Wrong Answer

+0 Points

10 Points

⁶ If the series $\sum a_n$ converges, then ()

- A
- **O** B
- **O** C
- OD
- Wrong Answer

+0 Points

7.

If the function f(x) has continuous second-order derivatives and satisfies the equation $f(x)-1=\int_0^x f(1-t)\mathrm{d}t,$ then f(x) = ().

10 Points

- A
- **O** B
- **O** C
- O D
- Correct Answer

+10 Points

8.

The improper integral $\int_0^1 \arctan \sqrt{\frac{x}{1-x}} dx =$ 10

Points

- OA
- OB
- **O** C
- D
- Correct Answer

+10 Points

9.

The number of asymptotes of the curve
$$y = \frac{x^2 \arctan x}{x-1}$$
 is ().

10 Points

- 0 0
- 0 1
- **O** 2
- **3**
- Correct Answer

+10 Points

10.

The length of the curve $y = x^4$ from x = 1 to x = 5 is given by

10 Points

- **O** A
- **O** B
- **O** C
- D
- OE
- Correct Answer

+10 Points

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