

FSC Part 2 Mathematics Chapter 3 Online Test

Sr	Questions	Answers Choice
1	If the graph of f is entirely above the x-axis, then the definite integral is _____:	A. Positive B. Positive or negative C. Negative D. Positive and negative
2	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. cosec x + c B. -cosec x + c C. cot x + c D. -cot x + c
3	Question Image <input style="width: 500px; height: 20px;" type="text"/>	C. 2 D. 1
4	The term dy (or df) = $f'(x) dx$ is called the _____ of the dependent variable y.	A. Differentiation B. Integration C. Differential D. None of these
5	The technique or method to find such a function whose derivative is given involves the inverse process of differentiation called:	A. Differentiation B. Integration C. Differential D. None of these
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $\cos x + c$ B. $-\cos x + c$ C. $\sin x + c$ D. $-\sin x + c$
7	An integral of $3x^2$ is:	A. $x^3 + c$ B. 3 C. $6x$ D. $x^2 + c$
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $a \operatorname{cosec}(ax + b)$ D. $\cot(ax + b)$
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $\tan x + c$ B. $-\tan x + c$ C. $\sec x + c$ D. $-\sec x + c$
10	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $e^{2x} \sin x + c$ B. $e^{2x} \cos x + c$ C. $-e^{2x} \sin x + c$ D. $-e^{2x} \cos x + c$
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. equal to each other B. not equal to each other C. nearly equal to each other D. None of these
12	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 36 B. 42 C. 48 D. 12
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. e^{ax} B. $f(x)$ C. $e^{ax} f(x)$ D. $e^{ax + f(x)}$
14	If the upper limit is a constant and the lower limit is a variable, then the integral is a function of:	A. x B. y C. lower limit D. upper limit
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Integration B. Integrand C. Constant of integration D. None of these
16	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $e^{-x} \sin x + c$ B. $-e^{-x} \sin x + c$ C. $e^{-x} \cos x + c$ D. $-e^{-x} \cos x + c$

$$D. -e^{\sup-x} \sin x + c$$

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Question Image

- A. $\ln |\sec x + \tan x| + c$
- B. $\ln |\operatorname{cosec} x - \cot x| + c$
- C. $\ln |\sec x - \tan x| + c$
- D. $\ln |\operatorname{cosec} x + \cot x| + c$

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Question Image

- A. 0
- B. 1
- C. 2
- D. 4

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Question Image

- A. Integration
- B. Integration w.r.t.x
- C. Differentiation
- D. Differentiation w.r.t.x

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Question Image

- A. integration by parts
- B. definite integral
- C. Differentiation
- D. None of these