

FA Part 2 Mathematics Chapter 3 Test Online

Sr	Questions	Answers Choice
1	An integral of $3x^2$ is:	A. $x^3 + c$ B. 3 C. $6x$ D. $x^2 + c$
2	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 36 B. 42 C. 48 D. 12
3	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. integration by parts B. definite integral C. Differentiation D. None of these
4	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $\ln \sec x + \tan x + c$ B. $\ln \operatorname{cosec} x - \cot x + c$ C. $\ln \sec x - \tan x + c$ D. $\ln \operatorname{cosec} x + \cot x + c$
5	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Integration B. Integrand C. Constant of integration D. None of these
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $\ln \sin x $ B. $-\ln \sin x $ C. $\ln \cos x $ D. $-\ln \cos x $
7	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
8	If $y = \sin x$ then $dy =$	A. $\cos y \, dx$ B. $\cos x$ C. $\cos x \, dx$ D. $\cos x \, dy$
9	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
10	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $\operatorname{cosec} x + c$ B. $-\operatorname{cosec} x + c$ C. $\cot x + c$ D. $-\cot x + c$
11	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. $-e^{-x} \sin x + c$
12	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
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $\ln \sec x + \tan x + c$ B. $\ln \operatorname{cosec} x - \cot x + c$ C. $\ln \sec x - \tan x + c$ D. $\ln \operatorname{cosec} x + \cot x + c$
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $\tan x + c$ B. $-\tan x + c$ C. $\sec x + c$ D. $-\sec x + c$
15	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. $-e^{2x} \cos x + c$
16	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 0 B. 1 C. 2

D. 3

17 Area between x-axis and the curve:

- A. 32
- D. 16

18 Question Image

- A. domain
- B. range
- C. lower limit
- D. upper limit

19 If the graph of f is entirely below the x-axis, then the definite integral is:

- A. Positive
- B. Positive or negative
- C. Negative
- D. Positive and negative

20 Question Image

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