

ICS Part 2 Mathematics Chapter 2 Test Online

Sr	Questions	Answers Choice
1	Notation $Df(x)$ for derivative was used by:	A. Cauchy B. Newton C. Leibniz D. Lagrange
2	Question Image <input type="text"/>	A. $x = a$ B. $x = 2$ C. $x = 0$ D. None
3	Question Image <input type="text"/>	
4	The function $f(x) = 3x^2$ has minimum value at :	A. $x = 3$ B. $x = 2$ C. $x = 1$ D. $x = 0$
5	Question Image <input type="text"/>	A. $-\operatorname{cosec} x \cot x$ B. $\operatorname{cosec}^2 x$ C. $-\operatorname{cosec}^2 x$ D. $\operatorname{cosec} x \cot x$
6	Question Image <input type="text"/>	A. $-\operatorname{cosec}^2 x$ B. $\operatorname{cosec}^2 x$ C. $-\operatorname{cosec} x \cot x$ D. $\operatorname{cosec} x \cot x$
7	Question Image <input type="text"/>	A. $\sec x \tan x$ B. $-\sec^2 x$ C. $-\sec x \tan x$ D. $\sec^2 x$
8	Question Image <input type="text"/>	A. $\tan x$ B. $\cot x$ C. $-\tan x$ D. $-\cot x$
9	Question Image <input type="text"/>	A. 0 B. 1 C. -1 D. 2
10	Question Image <input type="text"/>	
11	Question Image <input type="text"/>	A. $x = a$ B. $x = 2$ C. $x = 0$ D. None
12	For a square of side x units, the rate of change of area with respect to the side is given by:	A. x B. x^2 C. $2x$ D. 2
13	Question Image <input type="text"/>	A. $\operatorname{sech} x \tanh x$ B. $-\operatorname{sech}^2 x$ C. $-\operatorname{sech} x \tanh x$ D. $\operatorname{sech}^2 x$
14	Question Image <input type="text"/>	A. $2\cosh x$ B. $2\sinh x$ C. $2\sinh(2x)$ D. $-2\sinh(2x)$
15	Question Image <input type="text"/>	
16	Question Image <input type="text"/>	A. $\sin x$ B. $-\cos x$ C. $-\sin x$ D. $\cos x$
17	Question Image <input type="text"/>	A. $\operatorname{sech} x \tanh x$ B. $-\operatorname{sech} x \tanh x$ C. $\operatorname{sech}^2 x$ D. $-\operatorname{sech}^2 x$

D. $-\sec^2 x$

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19 Gottfried Wilhelm Leibniz was a (an) ----- mathematician:

- A. German
- B. English
- C. Swiss
- D. French

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- A. $1 - 4$
- B. $2x - 3$
- C. $x - 3$
- D. $x^3 - 3x$