

FA Part 2 Mathematics Chapter 2 Test Online

Sr	Questions	Answers Choice
1	Question Image	A. cosech x coth x B. $-\text{cosech}^2 x$ C. -cosech x coth x D. $\text{cosech}^2 x$
2	Question Image	A. 5 sin x B. cosh (5x) C. 5 cosh (5x) D. -5 cosh (5x)
3	Question Image	A. sin x B. -cos x C. -sin x D. cos x
4	The Maclaurin series expansion is valid only if it is:	A. Convergent B. Divergent C. Increasing D. Decreasing
5	Question Image	A. 2cosh x B. 2sinh x C. 2sinh (2x) D. -2sinh (2x)
6	The small change in the value of x, positive or negative is called the ----- of x.	A. Increment B. Differential C. Derivative D. none of these
7	If $y = f(u)$ and $u = F(x)$, then:	
8	Question Image	
9	Question Image	
10	Question Image	A. 0 B. 1 C. -1 D. 2
11	The instantaneous rate of change of y with respect to x is given by:	
12	Gottfried Wilhelm Leibniz was a (an) ----- mathematician:	A. German B. English C. Swiss D. French
13	Question Image	A. $\sec x \tan x$ B. $-\sec^2 x$ C. $-\sec x \tan x$ D. $\sec^2 x$
14	Question Image	
15	The derivative of x with respect to y is given by:	
16	Question Image	A. $x = a$ B. $x = 2$ C. $x = 0$ D. None
17	Question Image	A. sech x tanh x B. -sech x tanh x C. $\text{sech}^2 x$ D. $-\text{sech}^2 x$
18	Question Image	A. c B. 0 C. 1 D. -c
		A. $x = 3$ B. $x = 2$

19 The function $f(x) = 3x^2$ has minimum value at :

- B. $x = 2$
- C. $x = 1$
- D. $x = 0$

20 Question Image

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