

FA Part 2 Mathematics Chapter 1 Test Online

Sr	Questions	Answers Choice
1	Question Image	
2	$\tanh x =$	
3	Question Image	A. Even B. Odd C. One-one D. Zero
4	The symbol $y = f(x)$ i.e. y is equal to f of x , invented by Swiss mathematician-----:	A. Euler B. Cauchy C. Leibniz D. Newton
5	The area A of a circle as a function of its circumference C is:	
6	The function $y = \ln x$ is a/an ----- function of x .	A. Constant B. Explicit C. Exponential D. Logarithmic
7	Which one is an exponential function ?	
8	If x and y are so mixed up and y cannot be expressed in terms of the independent variable x , then y is called a/an ---- function of x .	A. Constant B. Explicit C. Implicit D. Inverse
9	Parametric equations $x = a \cos t$, $y = a \sin t$ represent the equation of:	A. Line B. Circle C. Parabola D. Ellipse
10	Let $f(x) = x^2 + 3$, then domain of f is:	A. Set of all integers B. Set of natural numbers C. Set of real numbers D. Set of rational numbers
11	$f(x) = x \sec x$, then $f(0) =$	A. -1 B. 0 C. 1
12	Question Image	A. R B. $R - \{2\}$ C. $R - \{2, -2\}$ D. $R - \{-2\}$
13	If a variable y depends on a variable x in such a way that each value of x determines exactly one value of y , then y is a _____ of x .	A. Independent variable B. Not function C. Function D. None of these
14	$x = 3 \cos t$, $y = 3 \sin t$ represent	A. Line B. Circle C. Parabola D. Hyperbola
15	$\cosh^2 x + \sinh^2 x =$	A. $\cosh x ²$ B. $\cosh 2x$ C. $\sinh 2x$ D. $\tanh 2x$
16	$x^2 + y^2 = 4$ is:	A. Function B. Not a function C. Ellipse D. Line
17	If $y = f(x)$, then the variable x is called ----- variable of a function f .	A. Dependent B. Independent C. Image of y D. None of these
18	$\cosh^{-1} x =$	

19

Question Image

- A. Underlined
- B. $3a^2$
- C. a^2
- D. 0

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The linear function $f(x) = ax + b$ is an identity function if:

- A. $a = 0, b = 1$
- B. $a = 1, b = 0$
- C. $a = 1, b = 1$
- D. $a = 0, b = 1$