





FA Part 2 Mathematics Chapter 1 Test Online

Sr	Questions	Answers Choice
1	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. $a = 0, b = 1$
2	$\cosh^2 x + \sinh^2 x =$	A. $\cosh x$ B. $\cosh 2x$ C. $\sinh 2x$ D. $\tanh 2x$
3	$\tanh x =$	
4		A. 4 B. Does not exist
5	$x = 3 \cos t, y = 3 \sin t$ represent	A. Line B. Circle C. Parabola D. Hyperbola
6		A. Constant function B. Absolute linear function C. Linear function D. Quadratic function
7	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
8	The term function was introduced by:	A. Euler B. Newton C. Lagrange D. Leibniz
9		A. \mathbb{R} B. $\mathbb{R} - \{2\}$ C. $\mathbb{R} - \{2, -2\}$ D. $\mathbb{R} - \{-2\}$
10	The range of the function $f(x) = x $	
11	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
12		A. Continuous at $x = 1$ B. Not continuous at $x = 1$ C. Both a and b D. none
13	Which one is a constant function ?	A. $f(x) = x^2$ B. $f(x) = x$ C. $f(x) = x + 1$ D. $f(x) = 14$
14	Let $f(x) = x^2$, then range of f is the set of all:	A. Real numbers B. Non-negative real numbers C. Non-negative integers D. Complex numbers
15	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
16	Every relation, which can be represented by a linear equation in two variables, represents a:	A. Graph B. Function C. Cartesian product D. Relation
17	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

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Question Image

- A. Parabola
- B. Hyperbola
- C. Ellipse
- D. Circle

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Let $f(x) = \cos x$, then $f(x)$ is an:

- A. Even function
- B. Odd function
- C. Power function
- D. None of these

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Parametric equations $x = a \cos t$, $y = a \sin t$ represent the equation of:

- A. Line
- B. Circle
- C. Parabola
- D. Ellipse