

FA Part 2 Mathematics Chapter 1 Test Online

Sr	Questions	Answers Choice
1	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
2	Question Image	A. 4, -4 B. 0 C. 2, -2 D. 0, 4
3	Question Image	A. Line B. Parabola C. Ellipse D. Hybperbola
4	Which one is an exponential function ?	
5	Question Image	A. Continuous at $x = 1$ B. Not continuous at $x = 1$ C. Both a and b D. none
6	$\cosh^{-1}x =$	
7	$x = 3 \cos t$, $y = 3 \sin t$ represent	A. Line B. Circle C. Parabola D. Hyperbola
8	Question Image	A. Constant B. Implicit C. Identity D. Inverse
9	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
10	If y is an image of x under the function f , we denote it by:	A. $x = f(y)$ B. $x = y$ C. $y = f(x)$ D. $f(x, y) = c$
11	Parametric equations $x = a \cos t$, $y = a \sin t$ represent the equation of:	A. Line B. Circle C. Parabola D. Ellipse
12	A function, in which the variable appears as exponent (power), is called a / an ----- function.	A. Constant B. Explicit C. Exponential D. Inverse
13	The term function was introduced by:	A. Euler B. Newton C. Lagrange D. Leibniz
14	$f(x) = \sin x + \cos x$ is ----- function:	A. Even B. Odd C. Composite D. Neither even nor odd function
15	A function $P(x) = 6x^4 + 7x^3 + 5x + 1$ is called a polynomial function of degree ----- with leading coefficient -----.	A. 4, 6 B. 2, 7 C. 2, 3 D. 2, 5
16	Which one is not an exponential function ?	
17	Which one is a constant function ?	A. $f(x) = x^{>2}$ B. $f(x) = x$ C. $f(x) = x + 1$

D. $f(x) = 14$

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Question Image

- A. \mathbb{R}
- B. $\mathbb{R} - \{2\}$
- C. $\mathbb{R} - \{2, -2\}$
- D. $\mathbb{R} - \{-2\}$

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If the degree of a polynomial function is -----, then it is called a linear function:

- A. 0
- B. 1
- C. 2
- D. 3

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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. $a = 0, b = 1$