FA Part 2 Mathematics Chapter 1 Test Online

Sr	Questions	Answers Choice
1	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
2	f(x) = sin x + cos x is ---------- function:	A. Even B. Odd C. Composite D. Neither even nor odd function
3	Which one is not an exponential function ?	
4	Question Image	A. 0 B. 2 C. 1 D. 3
5	Question Image	A. Line B. Parabola C. Ellipse D. Hybperbola
6	Question Image	A. Constant B. Implicit C. Explicit D. Inverse
7	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
8	Question Image	A. Common logarithmic B. Natural logarthmic C. Exponential D. None of these
9	Parametric equations x = a cos t, y = a sin t represent the equation of:	A. Line B. Circle C. Parabola D. Ellipse
10	Question Image	A. 4 B. Does not exist
11	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
12	$\text{Cosh}^2 x - \text{Sinh}^2 x =$	A. 1 B. -1 C. 2 D. -2
13	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
14	The function y = ln x is a/an ---------- function of x.	A. Constant B. Explicit C. Exponential D. Logarithmic
15	Question Image	A. R B. R - {2} C. R - {2, -2} D. R - {-2}
16	f(x) is odd function. If and only if:	A. f(-x) = -f(x) B. f(-x) = f(x) C. f(x) = 3f(-x) D. f(x) = -3f(-x)

17	Question Image	A. 4, -4 B. 0 C. 2, -2 D. 0, 4
18	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
19	Question Image	A. Constant B. Implicit C. Identity D. Inverse
20	The area A of a circle as a function of its circumference C is:	