

ICS Part 2 Mathematics Chapter 1 Test Online

Sr	Questions	Answers Choice
1	$\cosh^2 x + \sinh^2 x =$	A. Cosh x ² B. Cosh 2x C. Sinh 2x D. Tanh 2x
2	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
3	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
4	Question Image	A. Undefined B. 3a ² C. a ² D. 0
5	Question Image	A. sin x B. cos x C. sinh x D. cosh x
6	Inverse hyperbolic functions are expressed in terms of natural:	A. Numbers B. Exponential C. Logarithms D. Sines
7	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
8	Question Image	A. 4, -4 B. 0 C. 2, -2 D. 0, 4
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. 1 B. 2 C. 3 D. 4
11	Question Image	A. Line B. Parabola C. Ellipse D. Hybperbola
12	Question Image	A. Implicit B. Explicit C. Exponential D. Logarithmic
13	tanh x =	
14	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
15	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
16	If the degree of a polynomial function is, then it is called a linear function:	A. 0 B. 1 C. 2

	D. 3
Question Image	A. Common logarithmic B. Natural logarthmic C. Exponential D. None of these
$f(x) = \sin x + \cos x$ is function:	A. Even B. Odd C. Composite D. Neither even nor odd function
A function, in which the variable appears as exponent (power), is called a / anfunction.	A. Constant B. Explicit C. Exponential D. Inverse
Which one is an exponential function ?	
	f(x) = sin x + cos x is function: A function, in which the variable appears as exponent (power), is called a / an function.