

## ICS Part 2 Mathematics Chapter 1 Test Online

Sr	Questions	Answers Choice
1	$x = 3 \cos t, y = 3 \sin t$ represent	A. Line B. Circle C. Parabola D. Hyperbola
2	$f(x)$ is odd function. If and only if:	A. $f(-x) = -f(x)$ B. $f(-x) = f(x)$ C. $f(x) = 3f(-x)$ D. $f(x) = -3f(-x)$
3	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
4	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 0 B. 2 C. 1 D. 3
5	$\cosh^{-1}x =$	A. 0 B. 1 C. 2 D. 3
6	If the degree of a polynomial function is -----, then it is called a linear function:	A. 0 B. 1 C. 2 D. 3
7	$\cosh^2 x + \sinh^2 x =$	A. $\cosh x^{<sup>2</sup>}$ B. $\cosh 2x$ C. $\sinh 2x$ D. $\tanh 2x$
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 4 B. Does not exist
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Continuous at $x = 1$ B. Not continuous at $x = 1$ C. Both a and b D. none
10	Which one is an exponential function ?	A. Implicit B. Explicit C. Exponential D. Logarithmic
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Parabola B. Hyperbola C. Ellipse D. Circle
12	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Parabola B. Hyperbola C. Ellipse D. Circle
13	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
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $f(x^{<sup>2</sup>} + 1)$ B. $f(x)$ D. $f(x^{<sup>2</sup>})$
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Even B. Odd C. Composite D. Neither even nor odd function
16	$f(x) = \sin x + \cos x$ is ----- function:	A. Euler B. Cauchy C. Leibniz D. Newton
17	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
18	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Complex

- 18 A function, in which the variables are \_\_\_\_\_ numbers, then function is called a real valued function of real numbers.
- 19 The function  $y = \ln x$  is a/an ----- function of  $x$ .
- 20 Which one is not an exponential function ?

B. Rational  
C. Real  
D. None of these

A. Constant  
B. Explicit  
C. Exponential  
D. Logarithmic