



ICS Part 2 Mathematics Chapter 1 Test Online

Sr	Questions	Answers Choice
1	The function $y = \ln x$ is a/an ----- function of x .	A. Constant B. Explicit C. Exponential D. Logarithmic
2	Which one is not an exponential function ?	
3	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 1 B. 2 C. 3 D. 4
4	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 4, -4 B. 0 C. 2, -2 D. 0, 4
5	If a function f is from a set X to a set Y , then set X is called the _____ of f :	A. Domain B. Range C. Co-domain D. None of these
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $\sin x$ B. $\cos x$ C. $\sinh x$ D. $\cosh x$
7	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
8	Every relation, which can be represented by a linear equation in two variables, represents a:	A. Graph B. Function C. Cartesian product D. Relation
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 0 B. 2 C. 1 D. 3
10	$\cosh^2 x + \sinh^2 x =$	A. $\cosh x$ B. $\cosh 2x$ C. $\sinh 2x$ D. $\tanh 2x$
11	Which one is an identity function ?	B. $f(x) = g(x)$ C. $f(x) = x$ D. $f(x) = 1$
12	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. $a = 0, b = 1$
13	Which one is an exponential function ?	
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Undefined B. $3a^2$ C. a^2 D. 0
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. \mathbb{R} B. $\mathbb{R} - \{2\}$ C. $\mathbb{R} - \{2, -2\}$ D. $\mathbb{R} - \{-2\}$
16	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
17	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $f(x^2 + 1)$

17		<p>B. $f(x)$ D. $f(x^2)$</p>
18	If the degree of a polynomial function is -----, then it is called a linear function:	<p>A. 0 B. 1 C. 2 D. 3</p>
19	A function, in which the variable appears as exponent (power), is called a / an ----- function.	<p>A. Constant B. Explicit C. Exponential D. Inverse</p>
20		<p>A. Constant function B. Absolute linear function C. Linear function D. Quadratic function</p>