


ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	$y = b$ is a horizontal line perpendicular to _____:	A. x - axis B. y - axis may be C. y - axis D. None of these
2	The derivative of x with respect to y is given by:	
3	A function, in which the variable appears as exponent (power), is called a / an ----- function.	A. Constant B. Explicit C. Exponential D. Inverse
4	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
5	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 4a B. 2a C. 4b D. 2b
6	Which of the following is a vector quantity ?	A. Work B. Temperature C. Distance D. Displacement
7	The vertex of the parabola $y^2 = 4ax$ is:	A. (-a, 0) B. (a, 0) C. (0, -a) D. (0, 0)
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $e^{2x} \sin x + c$ B. $e^{2x} \cos x + c$ C. $-e^{2x} \sin x + c$ D. $-e^{2x} \cos x + c$
9	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
10	The point (2, 5) lies the lie $3x - y + 1 = 0$	A. Above B. Below C. On D. None
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
12	The opening of the parabola $y^2 = 4ax$ is to the _____ of the:	A. Left B. Upward C. Right D. Downward
13	The radius of point circle is:	A. 0 B. (0, 0) C. r D. 1
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. domain B. range C. lower limit D. upper limit
15	If the equation of the parabola is $y^2 = 4ax$, then opening of the parabola is to the right of the:	A. x-axis B. $y = x$ C. y-axis D. $x + y = 0$
16	Non-vertical lines divide the plane into _____ half plane:	A. Upper and lower B. Many C. Left and Right D. None of these

17	The function $f(x) = 3x^2$ has minimum value at :	A. $x = 3$ B. $x = 2$ C. $x = 1$ D. $x = 0$
18		A. equal to each other B. not equal to each other C. nearly equal to each other D. none of these
19	The directrix of the parabola $x^2 = -4ay$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
20	A function, in which the variables are _____ numbers, then function is called a real valued function of real numbers.	A. Complex B. Rational C. Real D. None of these