

FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	$x = 4$ is a line:	A. Parallel to x - axis B. Parallel to y - axis C. Perpendicular to y-axis D. None of these
2	$\text{Cosh}^2 x - \text{Sinh}^2 x =$	A. 1 B. -1 C. 2 D. -2
3	Question Image	
4	Let $f(x) = x^2 + 3$, then domain of f is:	A. Set of all integers B. Set of natural numbers C. Set of real numbers D. Set of rational numbers
5	Question Image	A. $-\text{cosec}^2 x$ B. $\text{cosec}^2 x$ C. $-\text{cosec} x \cot x$ D. $\text{cosec} x \cot x$
6	Question Image	A. Line B. Parabola C. Ellipse D. Hyperbola
7	Question Image	
8	The distance of any point P (x, y) from the origin O(0, 0) is given by:	
9	If the equation of the parabola is $x^2 = 4ay$, then opening of the parabola is to _____ of the x-axis:	A. Left B. Upward C. Right D. Downward
10	The focus of the parabola $y^2 = -4ax$ is:	A. (-a, 0) B. (0, a) C. (0, -a) D. (a, 0)
11	The small change in the value of f, positive or negative is called the ----- of x.	A. Increment B. Differential C. Derivative D. none of these
12	Question Image	A. 1 B. 2 C. 3 D. 0
13	Question Image	A. 0 B. 1 C. e D. Does not exist
14	Gottfried Wilhelm Leibniz was a (an) ----- mathematician:	A. German B. English C. Swiss D. French
15	Question Image	A. Constant B. Implicit C. Explicit D. Inverse
16	y-coordinate of any point on X-axis:	A. 0 B. x C. y D. 1
17	The operation _____ by a positive constant to each side of inequality will affect the order (or sense) of inequality:	A. Adding B. Subtracting C. Multiplying D. Dividing

D. None of these

18

Question Image

A. $a \operatorname{cosec}(ax + b)$
D. $\cot(ax + b)$

19

$ax + by + c = 0$ has matrix form as:

B. $|ax + by| = |-c|$
C. $[ax + by] = [c]$
D. $[ax - by] = [-c]$

20

X-co-ordinate of centroid of triangle ABC with A(-2, 3); B(-4, 1); C(3, 5) equals:

A. -1
B. 1
C. 3
D. -3