

## FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	A line through a point say P perpendicular to the tangent to the curve at P is called:	A. Straight line B. Tangent line C. Normal line D. None of these
2	The graph of $2x + y < 2$ is the open half plane which is the origin side of $2x + y = 2$ :	A. At B. Not an C. On D. None of these
3	Question Image	A. One variable B. Three variable C. Two variable D. Four variable
4	The focus of the parabola x2=-4ay is:	A. (-a, 0) B. (0, a) C. (0, -a) D. (a, 0)
5	Question Image	A. One variable B. Three variable C. Two variable D. Four variable
6	Question Image	A. Constant B. Implicit C. Explicit D. Inverse
7	If $(1, x)$ is the mid point of the line segment joining the points $(1, 2)$ & $(1, 6)$ then $x =$	A. 1 B. 2 C. 3 D. 4
8	If the directed distances AP and PB have the opposite signs, i.e; p is beyond AB, then their ratio is negative and P is said to divide AB:	A. Internally B. May divide C. Externally D. None of these
9	y = 2x + 3 is the;	A. Slope-intercept form B. Two points form C. Point slope form D. Intercepts form
10	Point of intersection of lines $x - 2y + 1 = 0$ and $2x - y + 2 = 0$ equals:	A. (1, 0) B. (0, 1) C. (-1, 0) D. (0, -1)
11	Question Image	A. sin x B. cos x C. sinh x D. cosh x
12	Question Image	A. Integration B. Integration w.r.t.x. C. Differentiation D. Differentiation w.r.t.x
13	The equ. of directrix of the parabola $y^2 = -4ax$ is:	A. x = a B. x = - a C. y = a D. y = -a
14	If a pair of opposite sides of a quadrilateral are equal and parallel then it is:	A. Rectangle  B. Rhombus C. Parallelogram D. None of these
15	$f(x) = x \sec x$ , then $f(0)=$	A1 B. 0 C. 1

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16	The equation to the straight line which passes through the point $(2, 9)$ and makes an angle of $45^\circ$ with x-axis is:	A. $x + y + f = 0$ le B. $x - y + 7 = 0$ C. $y - x + 7 = 0$ D. None of these
17	If $f(x) =  x $ , $f(x)$ is a:	A. Constant function B. Absolute function C. Linear function D. Quadratic function
18	x = c is a vertical line parallel to	A. x-axis B. y-axis may be C. y-axis D. None of these
19	Question Image	A. 5 sin x B. cosh (5x) C. 5 cosh (5x) D5 cosh (5x)
20	The distance between the center of a circle and any point of the circle is called:	A. Tangents B. Secant C. Diameter D. Radius