

FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	The axis of the parabola x^2 = 4ay is:	A. x = 0 B. x = -a C. y = 0 D. y = -a
2	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
3	The term function was introduced by:	A. Euler B. Newton C. Lagrange D. Leibniz
4	A pair of lines of homogeneous second degree equation $ax^2 + 2hxy + by^2 = 0$ are othogonal, if:	A. a - b = 0 B. a + b = 0 C. a + b > 0 D. a - b < 0
5	The center of circle $x^2 + y^2 + 2gx + 2fy + c = 0$ is:	A. (-g, -f) B. (-f, -g) C. (0, 0) D. (g, f)
6	Question Image	A. f(x) B. n f(x) C. f'(x) D. n f'(x)
7	y^2 = 4ax, is the standard equation of the:	A. Ellipse B. Parabola C. Hyperbola D. None of these
8	The graph of the parabola $x^2 = -4ay$ is symmetric about:	A. x-axis B. major axis C. y-axis D. minor axis
9	The point of intersection of the perpendicular bisectors of a triangle is called:	A. Centroid B. Ortho-center C. Circums-center D. In-center
10	If the focus lies on the y - axis with coordinates $F(0, a)$ and directrix of the parabola is $y = -a$, then the equation of parabola is:	A. x ² = 4ay Bx ² = 4ay Cy ² = 4ax D. y ² = 4ax
11	Question Image	A. Lagrange B. Newtown C. Leibniz D. Cauchy
12	Question Image	A. Unit vector B. Null vector C. Free vector D. None of these
13	The line y = a is below the x-axis, if:	A. a > 0 B. a < 0 C. a = 0
14	Inclination of Y-axis or of any line parallel to Y-axis is:	B. Zero D. Undefined
15	There are ordered pairs that satisfy the inequality ax + by > c.	A. Finitely many B. Two C. Infinitely many D. Four
16	If the cone is cut by a plane perpendicular to the axis of the cone, then the section is a / an:	A. Parabola B. Circular cone C. Ellipse

		D. Circle
17	Angle between the lines $x + y + 1 = 0 & x - y + 4 = 0$ is:	A. 30° B. 45° C. 60° D. 90°
18	Question Image	A. 0 B. 1 C. e D. Does not exist
19	Question Image	A. [0] B. [0, 0] C. [0, 0, 0] D. None of these
20	Question Image	A. Left or right B. Upper or lower C. Open D. None of these