

FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Inverse hyperbolic functions are expressed in terms of natural:	A. Numbers B. Exponential C. Logarithms D. Sines
2	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Ellipse B. Parabola C. Hyperbola D. Circle
3	The instantaneous rate of change of y with respect to x is given by:	
4	The vertex of parabola $(x - 1)^2 = 8(y + 2)$ is:	A. (1, -2) B. (0, 1) C. (-1, -2) D. (1, 2)
5	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Left or right B. Upper or lower C. Open D. None of these
6	The opening of the parabola $y^2 = -4ax$ is to the left of the:	A. x-axis B. $x = 1$ C. y-axis D. $x = 0$
7	The cross product or vector product of two vectors is defined:	A. Only in plane B. Only in space C. Both a and b D. None of these
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. x - axis B. z - axis C. y - axis D. None of these
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $-\operatorname{cosec}^2 x$ B. $\operatorname{cosec}^2 x$ C. $-\operatorname{cosec} x \cot x$ D. $\operatorname{cosec} x \cot x$
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. $x^2 = 4ay$ B. $-x^2 = 4ay$ C. $-y^2 = 4ax$ D. $y^2 = 4ax$
11	The vertex of the parabola $x^2 = -4ay$ is:	A. (a, 0) B. (0, 0) C. (0, -a) D. (0, a)
12	If $y = f(x)$, then the variable x is called ----- variable of a function f.	A. Dependent B. Independent C. Image of y D. None of these
13	The distance between two points $P_1(x_1, y_1)$ and $P_2(x_2, y_2)$ on the co-ordinate plane is given by:	
14	In equation of circle, coefficient of each of x^2 and y^2 are:	A. Not equal B. Opposite in signs C. Equal D. None of these
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 0 B. 1 C. -1 D. 2
16	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $\sin x$ B. $\cos x$ C. $\sinh x$ D. $\cosh x$

17	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)
18	If a straight line is perpendicular to y-axis, then its slope is:	A. 1 B. -1 C. 0 D. undefined
19	Length of tangent from (a, 0) to the circle $x^2 + y^2 + 2gx + 2fy + c = 0$ is:	B. c C. $2g + 2f - c$ D. None
20	Question Image <input type="text"/>	A. $x = 0$ B. $y = -a$ C. $y = 0$ D. $y = -a$