

FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	If $f(x) = x $, $f(x)$ is a:	A. Constant function B. Absolute function C. Linear function D. Quadratic function
2	The general solution of differential equation of order n contains n arbitrary constants, which can be determined by ----- initial value conditions.	A. 1 B. 0 C. 2 D. n
3	Question Image	
4	Question Image	A. Line parallel to x-axis B. Line parallel to y-axis C. Line passing through the origin D. Both (a) and (b)
5	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
6	A line segment whose end points lie on the circle is called a _____ of the circle.	A. Radius B. Chord C. Diameter D. None of these
7	X-coordinate of any point on Y-axis:	A. 0 B. x C. y D. 1
8	The point (5, 8) lies the line $2x - 3y + 6 = 0$	A. Above B. Below C. On D. None
9	Question Image	A. 4, -4 B. 0 C. 2, -2 D. 0, 4
10	The equation of the latus-rectum of the parabola $y^2 = 4ax$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$
11	Question Image	A. 0 B. 1 C. -1 D. 2
12	If 2 and 2 are x and y -components of a vector, then its angle with x -axis is:	A. 30° B. 45° C. 60° D. 90°
13	Question Image	A. $x = a$ B. $x = 2$ C. $x = 0$ D. None
14	Parametric equations $x = a \cos t$, $y = a \sin t$ represent the equation of:	A. Line B. Circle C. Parabola D. Ellipse
15	Question Image	A. Left or right B. Upper or lower C. Open D. None of these
16	Equation of the line parallel to $x + 3y - 9 = 0$ is:	A. $3x - y - 9 = 0$ B. $3x + 9y + 7 = 0$ C. $2x - 6y - 18 = 0$

$$D. x - 3y + 9 = 0$$

17 Which one is not an exponential function ?

18 A chord passing through the focus of a parabola is called a _____ of the parabola:

- A. Directrix
- B. Latus rectum
- C. Focus
- D. Focal chord

19 Question Image

20 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: