

FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	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. None of these
2	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
3	Question Image	A. $\ln \sec x + \tan x + c$ B. $\ln \operatorname{cosec} x - \cot x + c$ C. $\ln \sec x - \tan x + c$ D. $\ln \operatorname{cosec} x + \cot x + c$
4	The condition for the line $y = mx + c$ to be a tangent to the circle $x^2 + y^2 = a^2$ is $c =$ _____:	
5	Question Image	A. $4a$ B. $2a$ C. $4b$ D. $2b$
6	The focus of the parabola $y^2 = -4ax$ is:	A. $(-a, 0)$ B. $(0, a)$ C. $(0, -a)$ D. $(a, 0)$
7	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
8	A function, in which the variables are _____ numbers, then function is called a real valued function of real numbers.	A. Complex B. Rational C. Real D. None of these
9	Question Image	A. Position vector B. Null vector C. Unit vector D. None of these
10	Question Image	D. 2
11	If equation of circle is $(x - h)^2 + (y - k)^2 = r^2$, then center of a circle:	A. $(-h, -k)$ B. (h, k) C. $(-h, k)$ D. $(h, -k)$
12	Question Image	
13	Question Image	A. Integration B. Integration w.r.t.x C. Differentiation D. Differentiation w.r.t.x
14	$x = 4$ is the solution of inequality:	A. $x + 3 > 0$ B. $x - 3 < 0$ C. $-2x + 3 > 0$ D. $x + 3 < 0$
15	If a straight line is perpendicular to y-axis, then its slope is:	A. 1 B. -1 C. 0 D. undefined
16	Question Image	
17	The point $(2, 5)$ lies the lie $3x - y + 1 = 0$	A. Above B. Below C. On D. None

18 Question Image

19 Question Image

20 If a point lies inside a circle, then its distance from the center is:

- A. Equal to the radius
- B. Less then the radius
- C. Greater then the radius
- D. Equal to or greater than the