

FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Two vectors are equal if they:	A. Pass through the same point B. Are parallel to each other C. Are parallel to each other and have same direction D. Have equal magnitude and have same direction
2	$\text{Cosh}^2 x - \text{Sinh}^2 x =$	A. 1 B. -1 C. 2 D. -2
3	Question Image	A. Undefined B. $3a^{2</sup>2</sup>$ C. $a^{2</sup>2</sup>$ D. 0
4	If r is the radius of any circle and C its center, then any point $P(x_1, y_1)$ lies on the circle only if:	A. $ CP \leq r$ B. $ CP \geq r$ C. $ CP = r$ D. None of these
5	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)
6	Question Image	A. (1, 1) B. (1, 3) C. (1, 4) D. (1, 5)
7	Question Image	
8	The vertex of the parabola $x^2 = 4ay$ is:	A. (-a, 0) B. (0, a) C. (0, -a) D. (0, 0)
9	If $f(x) = x $, $f(x)$ is a:	A. Constant function B. Absolute function C. Linear function D. Quadratic function
10	Question Image	A. integration by parts B. definite integral C. Differentiation D. None of these
11	Let $f(x) = x^3 + \sin x$, then $f(x)$ is:	A. Even function B. Odd function C. Power function D. None of these
12	Question Image	
13	Which of the following is not a vector quantity ?	A. Weight B. Mass C. Force D. Velocity
14	The region of the graph $ax + by > c$ is called _____ half plane:	A. Open B. Boundary of C. Closed D. None of these
15	$y = b$ is a horizontal line perpendicular to _____:	A. x - axis B. y - axis may be C. y - axis D. None of these
16	Question Image	A. 0 B. 1 C. -1 D. 2

D. 2

17 The vertex of the parabola $y^2 = -4ax$ is:

- A. $(-a, 0)$
- B. $(a, 0)$
- C. $(0, -a)$
- D. $(0, 0)$

18 Inclination of Y-axis or of any line parallel to Y-axis is:

- B. Zero
- D. Undefined

19 If the equation of the parabola is $y^2 = 4ax$, then opening of the parabola is to the right of the:

- A. x-axis
- B. $y = x$
- C. y-axis
- D. $x + y = 0$

20 Question Image