

FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Question Image	A. 0 B. 1 C. 2 D. 4
2	If the line segment obtained by joining any two points of a region lies entirely within the region, then the region is called _____:	A. Maximum B. Vertex C. Minimum D. Convex
3	$y - y_1 = m(x - x_1)$ is the equation of straight line in:	A. Slope-intercept form B. Point-slope form C. Normal form D. Intercepts form
4	Question Image	A. Unit Vector B. Null vector C. Position vector D. None of these
5	Two circles of radius 3 cm and 4 cm touch each other externally. The distance between their centers is:	A. 1 cm B. 7cm C. 4cm D. 5cm
6	If a pair of opposite sides of a quadrilateral are equal and parallel then it is:	A. Rectangle B. Rhombus C. Parallelogram D. None of these
7	$y = b$ is a horizontal line parallel to _____:	A. x - axis B. x - axis may be C. y - axis D. None of these
8	The line $y = a$ is below the x-axis, if:	A. $a > 0$ B. $a < 0$ C. $a = 0$
9	The graph of linear equation of the form $ax + by = c$ is a line, which divides the plane into _____ disjoint regions, where a, b and c are constants and a, b are not both zero.	A. One B. Two C. Three D. None of these
10	Question Image	A. R B. $R - \{2\}$ C. $R - \{2, -2\}$ D. $R - \{-2\}$
11	Question Image	A. Scalar B. Free vector C. Unit vector D. Null vector
12	The opening of the parabola $y^2 = 4ax$ is to the _____ of the:	A. Left B. Upward C. Right D. Downward
13	A point of a solution region where two of its boundary lines intersects is called a _____ point of the solution region:	A. Maximum B. Corner C. Minimum D. None of these
14	If s is the distance traveled by a body at time t, the velocity is given by the expression:	
15	The graph of $2x + y < 2$ is the open half plane which is _____ the origin side of $2x + y = 2$:	A. At B. Not an C. On D. None of these
16	If the cutting plane is parallel to the axis of the cone and intersects both of its nappes, then the section a / an:	A. Parabola B. Hyperbola C. Ellipse

D. None of these

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Question Image

- A. Constant
- B. Implicit
- C. Identity
- D. Inverse

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$-4 < y < 4$ is the solution of the following:

- A. $y = 5$
- B. $y = 3$
- C. $y = -4$
- D. $y = 4$

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If a straight line is perpendicular to y-axis, then its slope is:

- A. 1
- B. -1
- C. 0
- D. undefined

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The radius of circle $x^2 + y^2 + 2gx + 2fy + c = 0$ is: