

## FA Part 2 Mathematics Chapter 5 Test Online

Sr	Questions	Answers Choice
1	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
2	The inequality $y > b$ is the open half plane to the _____ of the boundary line $y = b$ :	A. Above B. Left C. Below D. Right
3	<div style="border: 1px solid #ccc; padding: 2px; width: fit-content;">Question Image</div>	A. Left or right B. Upper or lower C. Open D. None of these
4	$x = 2$ is a vertical line perpendicular to _____:	A. x - axis B. x - axis may be C. y - axis D. None of these
5	<div style="border: 1px solid #ccc; padding: 2px; width: fit-content;">Question Image</div>	A. Open B. Closed C. Open as well as closed D. None of these
6	There are _____ ordered pairs that satisfy the inequality $ax + by > c$ .	A. Finitely many B. Two C. Infinitely many D. Four
7	The system of _____ involved in the problem concerned is called problem constraints:	A. Linear inequalities B. Equations C. Linear equalities D. None of these
8	$ax + by < c$ is an inequality of:	A. One variable B. Threevariable C. Twovariable D. Fourvariable
9	$ax + b > c$ is an inequality of:	A. One variable B. Three variable C. Two variable D. Four variable
10	<div style="border: 1px solid #ccc; padding: 2px; width: fit-content;">Question Image</div>	A. At B. Not on C. On D. None of these
11	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. Thre D. None of these
12	<div style="border: 1px solid #ccc; padding: 2px; width: fit-content;">Question Image</div>	A. Above B. Left C. Below D. Right
13	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
14	A solution of a linear inequality in x and y is an ordered pair of numbers, which _____ the inequality.	A. Does not satisfy B. May be stisfied C. Satisfies D. None of these
15	A region, which is restricted to the _____ quadrant, is referred to as a feasible region for the set of given constraints.	A. First B. Third C. Second D. Fourth

16	The region of the graph $ax + by > c$ is called _____ half plane:	A. Open B. Boundary of C. Closed D. None of these
17	The feasible region is _____ if it can easily be enclosed within a circle.	A. Bounded B. Exist C. Unbounded D. None of these
18	$x = 4$ is the solution of inequality:	A. $x + 3 > 0$ B. $x - 3 < 0$ C. $-2x + 3 > 0$ D. $x + 3 < 0$
19	$-4 < y < 4$ is the solution of the following:	A. $y = 5$ B. $y = 3$ C. $y = -4$ D. $y = 4$
20	The inequality $x < a$ is the open half plane to the _____ of the boundary line $x = a$ :	A. Above B. Left C. Below D. Right