

FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Non-vertical lines divide the plane into _____ half plane:	A. Upper and lower B. Many C. Left and Right D. None of these
2	The equation of a straight line which parallel to the line $3x - 2y + 5 = 0$ and passes through $(2, -1)$ is:	A. $3x + 2y - 8 = 0$ B. $3x - 2y + 8 = 0$ C. $3x - 2y - 8 = 0$ D. $3x + 2y + 8 = 0$
3	Question Image <input type="text"/>	A. 0 B. 1 C. 2 D. 3
4	The axis of the parabola $y^2 = -4ax$ is:	A. $x = a$ B. $x = 0$ C. $y = a$ D. $y = 0$
5	A function, which is to be maximized or minimized is called an _____:	A. Maximum function B. Objective function C. Minimum function D. None of these
6	$ax + by + c = 0$, will represent equation of straight line parallel y-axis if:	A. $a = 0$ B. $b = 0$ C. $c = 0$ D. $a = 0, c = 0$
7	The centroid of the triangle whose vertices are $(3, -5)$, $(-7, 4)$ and $(10, -2)$ is:	A. $(-2, -2)$ B. $(-2, 2)$ C. $(2, -1)$ D. $(0, 0)$
8	y-coordinate of any point on X-axis:	A. 0 B. x C. y D. 1
9	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. $x + y = 0$
10	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
11	Question Image <input type="text"/>	A. 1 B. 2 C. 3 D. 4
12	The ratio between the measure of the radial segment and the diameter of a circle is:	A. 2 : 1 B. 4 : 3 C. 1 : 2
13	The center of circle $(x+3)^2 + (y-2)^2 = 16$ equals:	A. $(-3, 2)$ B. $(3, -2)$ C. $(3, 2)$ D. $(-3, -2)$
14	A chord containing the center of the circle is called _____ of the circle:	A. Diameter B. Chord C. Radius D. None of these
15	$y = mx + c$ is the equation of straight line in:	A. Slope-intercept form B. Two points from C. Point slope form D. Intercepts form

16	General form of equation of line is:	<ul style="list-style-type: none"> A. $ax - by + c = 0$ B. $ax + by - c = 0$ C. $ax + by + c = 0$ D. $ax - by - c = 0$
17	The graph of the parabola $y^2 = -4ax$ is symmetric about:	<ul style="list-style-type: none"> A. x-axis B. major axis C. y-axis D. minor axis
18	The graph of linear equation of the form $ax + by = c$ is a _____ where a, b and c are constants and a, b are not both zero.	<ul style="list-style-type: none"> A. Curve B. Circle C. Straight line D. Parabola
19	The opening of the parabola $y^2 = 4ax$ is to the _____ of the:	<ul style="list-style-type: none"> A. Left B. Upward C. Right D. Downward
20	The law of parallelogram of addition was used by Aristotle to describe the combined action of :	<ul style="list-style-type: none"> A. One force B. Two forces C. Three forces D. Four forces