

FSC Part 2 Mathematics Full Book Online Test

Sr	Questions	Answers Choice
1	The term dy (or df) = f'(x) dx is called the of the dependent variable y.	A. Differentiation B. Integration C. Differential D. None of these
2	Question Image	A. equal to each other B. not equal to each other C. nearly equal to each other D. None of these
3	If a straight line is perpendicular to y-axis, then its slope is:	A. 1 B1 C. 0 D. undefined
4	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
5	The vertex of the parabola $x^2 = 4ay$ is:	A. (-a, 0) B. (0, a) C. (0, -a) D. (0, 0)
6	A linear equation in two variables represents:	A. Circle B. Ellipse C. Hyberbola D. Straight line
7	A line that touches the curve without cutting through it is called:	A. Straight line B. Tangent line C. Normal line D. Vertical line
8	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. $3x + 2y + 8 = 0$
9	Question Image	A. Line parallel to x-axis B. Line parallel to y-axis C. Line passing through the origin D. Both (a) and (b)
10	The graph of the parabola $y^2 = -4ax$ is symmetric about:	A. x-axis B. major axis C. y-axis D. minor axis
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	Question Image	A. 0
13	The line I is horizontal if and only if slope is equal to:	A. 0 B. 1 C. 2 D. undefined
14	The line y = c is above the x - axis, if:	A. c > 0 B. c < 0 C. c = 0
15	The focus of the parabola y^2 =-4ax is:	A. (-a, 0) B. (0, a) C. (0, -a) D. (a, 0)
16	A line segment joining two distinct points on a parabola is called a of the parabola:	A. Chord B. Vertex C. Focus

		D. Directrix
17	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
18	The graph of the parabola x^2 = -4ay is symmetric about:	A. x-axis B. major axis C. y-axis D. minor axis
19	The focus of the parabola x2=-4ay is:	A. (-a, 0) B. (0, a) C. (0, -a) D. (a, 0)
20	Point (5, 6) lies the circle $x^2 + y^2 = 81$:	A. Outside B. Inside C. On D. None of these