FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	The vertex of the parabola $y^2 = 4ax$ is:	A. (-a, 0) B. (a, 0) C. (0, -a) D. (0, 0)
2	The opening of the parabola $y^2 = 4ax$ is to the _____ of the:	A. Left B. Upward C. Right D. Downward
3	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.	A. Curve B. Circle C. Straight line D. Parabola
4	Question Image	A. R B. R - {2} C. R - {2, -2} D. R - {-2}
5	The number e denotes the _____ of the conic:	A. Directrix B. Vertex C. Focus D. Eccentricity
6	The derivative of x with respect to y is given by:	
7	Question Image	A. a B. b C. c D. a + b
8	Question Image	A. Continuous at x = 1 B. Not continuous at x = 1 C. Both a and b D. none
9	Question Image	A. Common logarithmic B. Natural logarithmic C. Exponential D. None of these
10	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
11	Question Image	A. 0
12	A parallelogram is a rhombus if and only if its diagonals are:	A. Parallel B. Perpendicular C. Equal D. None of these
13	The vertex of the parabola $y^2 = -4ax$ is:	A. (-a, 0) B. (a, 0) C. (0, -a) D. (0, 0)
14	The parabola $y^2 = 4ax$ lies in quadrants:	A. I and II B. III and IV C. II and III D. I and IV
15	Question Image	A. equal to each other B. not equal to each C. nearly equal to each other D. none of these
16	Perpendicular dropped from the center of a circle on a chord _____ the chord:	A. Normal B. Bisects C. Equal to D. None of these

17	Question Image	A. sin x B. cos x C. sinh x D. cosh x
18	Question Image	A. 4, -4 B. 0 C. 2, -2 D. 0, 4
19	Length of tangent from (0,1) to $x^2 + y^2 + 6x - 3y + 3 = 0$	A. 2 B. 1 C. 4 D. 3
20	If y = sin x then dy =	A. cosy dx B. cos x C. cosx dx D. cos xdy