FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	The center of circle $x^2 + y^2 + 2gx + 2fy + c = 0$ is:	A. (-g, -f) B. (-f, -g) C. (0, 0) D. (g, f)
2	If the focus lies on the x-axis with coordinates F(a, 0) and directrix of the parabola is = - a then the equation of parabola is:	A. $x^2 = 4ay$ B. $y^2 = 4ax$ C. $-x^2 = 4ay$ D. $-y^2 = 4ax$
3	Question Image	A. 0 B. 2 C. 3 D. 1
4	Question Image	
5	If the directed distances AP and PB have the opposite signs, i.e; p is beyond AB, then their ratio is negative and P is said to divide AB:	A. Internally B. May divide C. Externally D. None of these
6	Question Image	A. Left or right B. Upper or lower C. Open D. None of these
7	The parabola $y^2 = 4ax$ lies in quadrants:	A. I and II B. III and IV C. II and III D. I and IV
8	The area A of a circle as a function of its circumference C is:	
9	Joint equation of y + 2x = 0, y - 3x = 0 is:	A. (y+2x)(y-3x) = 0 B. (y-2x)(y-3x) = 0 C. (y+2x)(y+3x) = 0 D. (y-2x)(y+3x) = 0
10	Question Image	A. c B. 0 C. 1 D. -c
11	A corner point is the point of intersection of:	A. x-axis & y - axis B. Boundary lines C. Any two lines D. None
12	Question Image	A. tan x + c B. -tan x + c C. sec x + c D. -sec x + c
13	The axis of the parabola $x^2 = 4ay$ is:	A. x = 0 B. x = -a C. y = 0 D. y = -a
14	Question Image	A. x = a B. x = 2 C. x = 0 D. None
15	The line y = a is below the x-axis, if:	A. a > 0 B. a < 0 C. a = 0
16	Question Image	A. Constant function B. Absolute linear function C. Linear function D. Quadratic function
		A. 0

17	Question Image	B. 2 C. 1 D. -1
18	The ordered pair _____ is a solution of the inequality x + 2y < 6.	A. (3, 3) B. (1, 1) C. (4, 4) D. (5, 5)
19	$\text{Cosh}^2 x - \text{Sinh}^2 x =$	A. 1 B. -1 C. 2 D. -2
20	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