FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	The radius of circle $x^2 + y^2 + 2gx + 2fy + c = 0$ is:	
2	Angle between the lines $x + y + 1 = 0$ & $x - y + 4 = 0$ is:	A. 30° B. 45° C. 60° D. 90°
3	The point (5, 8) lies the line $2x - 3y + 6 = 0$	A. Above B. Below C. On D. None
4	Parametric equations $x = a \cos t$, $y = a \sin t$ represent the equation of:	A. Line B. Circle C. Parabola D. Ellipse
5	If 2 and 2 are x and y-components of a vector, then its angle with x-axis is:	A. 30° B. 45° C. 60° D. 90°
6	The range of the function $f(x) = |x|$	
7	Question Image	A. sinh x B. cosh x C. -sinh x D. -cosh x
8	If the equation of the parabola is $x^2 = 4ay$, then opening of the parabola is to _____ of the x-axis:	A. Left B. Upward C. Right D. Downward
9	Question Image	A. e^{ax} B. $f(x)$ C. $e^{ax}f(x)$ D. $e^{ax + f(x)}$
10	Question Image	A. 60° B. 90° C. 30° D. 45°
11	The distance of any point P (x, y) from the origin O(0 , 0) is given by:	
12	The vertex of the parabola $y^2 = -4ax$ is:	A. (-a, 0) B. (a, 0) C. (0, -a) D. (0, 0)
13	The line $y = a$ is below the x-axis, if:	A. a > 0 B. a < 0 C. a = 0
14	Question Image	A. Constant B. Implicit C. Identity D. Inverse
15	The number e denotes the _____ of the conic:	A. Directrix B. Vertex C. Focus D. Eccentricity
16	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)
17	Question Image	A. Line parallel to x - axis B. Line parallel to y - axis C. Inclined D. Both (a) and (b)

18	$y^2 = 4ax$, is the standard equation of the:	A. Ellipse B. Parabola C. Hyperbola D. None of these
19	Question Image	
20	Question Image	D. 2