FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	In the translation of axes which formula is true:	A. x = X + h B. X = x + h C. x + X = h D. None
2	A point of a solution region where two of its boundary lines intersects is called a _____ point of the solution region:	A. Maximum B. Corner C. Minimum D. None of these
3	Equation of a line parallel to x-axis:	A. x = 0 B. x = y C. y = a D. x = a
4	x = 3 cos t, y = 3 sin t represent	A. Line B. Circle C. Parabola D. Hyperbola
5	Question Image	A. 60° B. 90° C. 30° D. 45°
6	If $y = x^2 + 1$ _____ x changes from 3 to 3.02 then dy = _____	A. 0.1204 B. .12 C. .02 D. 1.2
7	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
8	Question Image	A. a B. 2b C. b D. 2a
9	A chord passing through the focus of a parabola is called a _____ of the parabola:	A. Directrix B. Latus rectum C. Focus D. Focal chord
10	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
11	Question Image	A. Parallel lines B. Perpendicular lines C. Non-parallel lines D. None of these
12	ax + b > c is an inequality of:	A. One variable B. Three variable C. Two variable D. Four variable
13	The point where the axis meets the parabola is called _____ of the parabola:	A. Directrix B. Vertex C. Focus D. Eccentricity
14	Question Image	A. cot x B. - cot x C. cosec x cot x D. -cosec x cot x
15	The non-negative inequalities are called:	A. Parameters B. Constants C. Decision variables D. Vertices

16	If a point lies inside a circle, then its distance from the center is:	A. Equal to the radius B. Less then the radius C. Greater then the radius D. Equal to or greater than the
17	A line segment joining two distinct points on a parabola is called a _____ of the parabola:	A. Chord B. Vertex C. Focus D. Directrix
18	The function $f(x) = 3x^2$ has minimum value at :	A. x = 3 B. x = 2 C. x = 1 D. x = 0
19	If r is the radius of any circle and C its center, then any point $P(x_1, y_1)$ lies outside the circle only if:	A. |CP| < r B. |CP| = r C. |CP| > r D. None of these
20	If the graph of f is entirely below the x-axis, then the definite integral is:	A. Positive B. Positive or negative C. Negative D. Positive and negative