

FA Part 2 Mathematics Chapter 6 Test Online

Sr	Questions	Answers Choice
1	If the equation of the parabola is $y2 = 4ax$, then opening of the parabola is to the right of the:	A. x-axis B. y = x C. y-axis D. x + y =0
2	The graph of the parabola x^2 = -4ay is symmetric about:	A. x-axis B. major axis C. y-axis D. minor axis
3	If equation of circle is $(x - h)^2 + (y - k)^2 = r^2$, then center of a circle:	A. (-h, -k) B. (h, k) C. (-h, k) D. (h, -k)
4	The point of a parabola which is closest to the focus in the:	A. Directrix B. Vertex C. Focus D. Chord
5	Measure of the central angle of a minor arc is the measure of the angle subtended in the corresponding major arc.	A. Equal B. Double C. Not equal to D. Triple
6	The directrix of the parabola $y^2 = 4ax$ is:	A. x = a B. x = -a C. y = a D. y = - a
7	Equation of axis of the parabola $x^2 = 4ay$ is:	A. x = 0 B. x = a C. y = 0 D. y = a
8	Point (5, 6) lies the circle $x^2 + y^2 = 81$:	A. Outside B. Inside C. On D. None of these
9	The condition for the line $y = mx + c$ to be a tangent to the circle $x^2 + y^2 = a^2$ is $c = $:	
10	The distance between the center of a circle and any point of the circle is called:	A. Tangents B. Secant C. Diameter D. Radius
11	In equation of circle, coefficient of each of x^2 and y^2 are:	A. Not equal B. Opposite in signs C. Equal D. None of these
12	Length of tangent from (a, 0) to the circle $x^2 + y^2 + 2gx + 2fy + c = 0$ is:	B. c C. 2g + 2f -c D. None
13	The vertex of the parabola $y^2 = 4ax$ is:	A. (-a, 0) B. (a, 0) C. (0, -a) D. (0, 0)
14	The center of circle $(x+3)^2 + (y-2)^2 = 16$ equals:	A. (-3, 2) B. (3, -2) C. (3, 2) D. (-3, -2)
15	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
16	A chord containing the center of the circle is called of the circle:	A. Diameter B. Chord C. Radius

		D. None of these
7	The conic is an ellipse, if:	A. e = 1 B. e > 1 C. 0 < e < 1 D. e = 0
8	The length of the latus rectum of the parabola $y^2 = 4ax$ is:	A. a B. 4a C. 2a D. None of these
9	Question Image	B. 0 C. 4 D. 7
0	The axis of the parabola $y^2 = -4ax$ is:	A. x = a B. x = 0 C. y = a D. y = 0