

FA Part 2 Mathematics Chapter 6 Test Online

Sr	Questions	Answers Choice
1	The graph of the parabola $y^2 = -4ax$ is symmetric about:	A. x-axis B. y = x C. y-axis D. None of these
2	Point p (-5, 6) lies the circle $x^2 + y^2 + 4x - 6y - 12 = 0$	A. Outside B. Inside C. On D. None of these
3	If the cone is cut by a plane perpendicular to the axis of the cone, then the section is a / an:	A. Parabola B. Circular cone C. Ellipse D. Circle
4	The vertex of the parabola $x^2 = 4ay$ is:	A. (-a, 0) B. (0, a) C. (0, -a) D. (0, 0)
5	If the cutting plane is parallel to the axis of the cone and intersects both of its nappes, then the section a / an:	A. Parabola B. Hyperbola C. Ellipse D. None of these
6	Question Image	
7	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)
8	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
9	The conic is an ellipse, if:	A. $e = 1$ B. $e > 1$ C. $0 < e < 1$ D. $e = 0$
10	Two imaginary tangents can be drawn to a circle from any point P(x_1, y_1) ____ the circle:	A. Inside B. On C. Outside D. None of these
11	The curves obtained by cutting a _____ double right circular cone by a _____ are called conics:	A. Straight line B. Plane C. Curve D. None of these
12	The opening of the parabola $y^2 = 4ax$ is to the _____ of the:	A. Left B. Upward C. Right D. Downward
13	The equation $x^2 + y^2 + 2x + 3y = 10$ represents a:	A. A pair of lines B. Circle C. Ellipse D. Hyperbola
14	Equation of axis of the parabola $x^2 = 4ay$ is:	A. $x = 0$ B. $x = a$ C. $y = 0$ D. $y = a$
15	A chord containing the center of the circle is called _____ of the circle:	A. Diameter B. Chord C. Radius D. None of these
16	If r is the radius of any circle and C its center, then any point P(x_1, y_1) lies on the circle only if:	A. $ CP < r$ B. $ CP > r$ C. $ CP = r$

D. None of these

17 The opening of the parabola $y^2 = -4ax$ is to the left of the:

- A. x-axis
- B. $x = 1$
- C. y-axis
- D. $x = 0$

18 If a point lies inside a circle, then its distance from the center is:

- A. Equal to the radius
- B. Less than the radius
- C. Greater than the radius
- D. Equal to or greater than the

19 If r is the radius of the circle and its center is at origin, then equation of circle is:

- A. $x^{sup>2} + y^{sup>2} = a^{sup>2}$
- B. $x^{sup>2} + y^{sup>2} = r^{sup>2}$
- C. $x^{sup>2} - y^{sup>2} = a^{sup>2}$
- D. $x^{sup>2} - y^{sup>2} = r^{sup>2}$

20 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. $x^{sup>2} = 4ay$
- B. $y^{sup>2} = 4ax$
- C. $-x^{sup>2} = 4ay$
- D. $-y^{sup>2} = 4ax$