

FSC Part 2 Mathematics Chapter 6 Online Test

Sr	Questions	Answers Choice
1	A line segment whose end points lie on the circle is called a _____ of the circle.	A. Radius B. Chord C. Diameter D. None of these
2	If the cutting plane is slightly tilted and cuts only one nappe of the cone, then the section is a / an:	A. Ellipse B. Circular cone C. Circle D. Point circle
3	The point where the axis meets the parabola is called _____ of the parabola:	A. Directrix B. Vertex C. Focus D. Eccentricity
4	The vertex of parabola $(x - 1)^2 = 8(y + 2)$ is:	A. (1, -2) B. (0, 1) C. (-1, -2) D. (1, 2)
5	If a circle and a line intersect in two points, then the line is called:	A. A chord B. A secant C. A diameter D. None of these
6	The radius of point circle is:	A. 0 B. (0, 0) C. r D. 1
7	The number e denotes the _____ of the conic:	A. Directrix B. Vertex C. Focus D. Eccentricity
8	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
9	The vertex of the parabola $y^2 = -4ax$ is:	A. (-a, 0) B. (a, 0) C. (0, -a) D. (0, 0)
10	Equation of axis of the parabola $x^2 = 4ay$ is:	A. x = 0 B. x = a C. y = 0 D. y = a
11	The equation $x^2 + y^2 + 2x + 3y = 10$ represents a:	A. A pair of lines B. Circle C. Ellipse D. Hyperbola
12	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
13	The axis of the parabola $x^2 = 4ay$ is:	A. x = 0 B. x = -a C. y = 0 D. y = -a
14	$y^2 = 4ax$, is the standard equation of the:	A. Ellipse B. Parabola C. Hyperbola D. None of these
15	The graph of the parabola $y^2 = -4ax$ is symmetric about:	A. x-axis B. y = x C. y-axis D. None of these

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- A. $x = a$
- B. $x = -a$
- C. $y = a$
- D. $y = -a$

17 The directrix of the parabola $x^2 = 4ay$ is:

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- A. $4a$
- B. $2a$
- C. $4b$
- D. $2b$

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

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

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- A. a
- B. $2b$
- C. b
- D. $2a$