

ECAT Pre General Science Mathematics Chapter 22 Circle

Sr	Questions	Answers Choice
1	The equation of the circle with centre at (5, -2) and radius 4 is	
2	IF the cone is cut by a plane perpendicular to the axis of the cone, then the section is a	A. circle B. ellipse C. hyperbola D. parabola
3	If the cutting plane is parallel to the axis of the cone and intersects both of its nappes, then the curve of intersection is	A. an ellipse B. a circle C. a parabola D. a hyperbola
4	If a plane passes through the vertex of the cone, then the intersection is	A. an ellipse B. a parabola C. a hyperbola D. a point circle
5	The equation: $x^2 + y^2 + 2gx + 2fy + c = 0$, represents	A. pair of lines B. a circle C. a general second degree equation D. a hyperbola
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
7	The set of all points in the plane that are equally distant from a fixed point is called a	A. parabola B. ellipse C. hyperbola D. circle
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	B. $a = b, h = 0$ C. $f = g, h = 0$ D. $h = h, c = 0$
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 1 B. 2 C. 0 D. None of these
10	If three non-collinear points through which a circle passes are known, then we can find the	A. variables x and y B. value of x and c C. three constant f, g and c D. inverse of the circle
11	The vertex of the cone is also called	A. nappes B. axis C. rulings D. apex
12	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
14	The area of the circle centred at (1, 2) and passing through (4, 6) is	
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Three Independent Variables B. Two independent constant C. Three independent parameters D. Three independent constant
16	If the cutting plane is slightly tilted and cuts only one nappe of the cone, the resulting section is	A. an ellipse B. a circle C. a hyperbola D. a parabola
17	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
18	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
19	If the intersecting plane is parallel to a generator of the cone, but intersects its one nappe only, the curve of intersection is	A. a circle B. an ellipse C. a parabola D. a hyperbola

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To study conics, Pappus used the method of

- A. analytic geometry
- B. solid geometry
- C. Euclidean geometry
- D. none of these