

ECAT Pre General Science Mathematics Chapter 22 Circle

Sr	Questions	Answers Choice
1	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
2	The area of the circle centred at (1, 2) and passing through (4, 6) is	
3	If the centre of the circle is the origin, then equation of the circle is	A. $x^2 + y^2 = 0$ B. $2gx + 2fy - c = 0$ C. $x^2 + y^2 = r^2$ D. $gx + fy - c/2 = 0$
4	The equation of the circle whose centre is (-3, 5) and having radius 7 is	A. $(x-3)^2 + (y+5)^2 = 7^2$ B. $(x-3)^2 + (y+5)^2 = 7$ C. $(x-3)^2 + (y-5)^2 = 7$ D. $x^2 + y^2 + 6x - 10y - 15 = 0$
5	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
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	B. $a = b, h = 0$ C. $f = g, h = 0$ D. $h = h, c = 0$
7	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
8	A cone is generated by all lines through a fixed point and the circumference of	A. a circle B. an ellipse C. a hyperbola D. none of these
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
10	To study conics, Pappus used the method of	A. analytic geometry B. solid geometry C. Euclidean geometry D. none of these
11	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
12	The equation of the circle with centre at (5, -2) and radius 4 is	
13	The fixed point which lies on the axis of the cone is called its	A. axis B. apex C. nappes D. axis
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
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	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
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 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
20	Question Image	D. None of these