

ECAT Mathematics Online Test

Sr	Questions	Answers Choice
1	If the intersecting plane is parallel to a generator of the cone, but intersects its one nappe only, the curve obtained is	A. an ellipse B. a hyperbola C. a circle D. a parabola
2	Question Image	A. I and III quadrants B. II and III quadrants C. I and II quadrants D. II and IV quadrants
3	If the cutting plane is slightly tilted and cuts only one nappe of the cone, the intersection is	A. an ellipse B. a hyperbola C. a circle D. a parabola
4	If a plane passes through the vertex of a cone then the intersection is	A. an ellipse B. a hyperbola C. a point circle D. a parabola
5	Question Image	
6	If a cone is cut by a plane perpendicular to the axis of the cone, then the section is a	A. parabola B. circle C. hyperbola D. ellipse
7	Conic sections or simply conics are the curves obtained by cutting a right circular cone by	A. a line B. two lines C. a plane D. two planes
8	Question Image	
9	Question Image	
10	The point _____ is in the solution of the inequality $2x - 3y < 4$	A. (0, -2) B. (1, -3) C. (2, 2) D. (3, 0)
11	Question Image	
12	(2, 1) is in the solution of the inequality	A. $2x + y < 7$ B. $x - y > 2$ C. $3x + 5y \leq 6$ D. $2x + y \leq 6$
13	Question Image	
14	The point _____ is in the solution of the inequality $4x - 3y < 2$	A. (0,1) B. (2,1) C. (2,2) D. (3,3)
15	The point _____ is in the solution of the inequality $2x - 3y > 5$	A. (1, -1) B. (2,2) C. (0,0) D. (3,0)
16	The point _____ is in the solution of the inequality $2x + 3y < 5$	A. (1,1) B. (2,2) C. (0,1) D. (0,2)
17	Question Image	
18	(1, 2) is in the solution of the inequality	A. $2x + y \geq 8$ B. $2x + y < 4$ C. $2x - y \geq 1$ D. $2x + 3y \leq 2$
		A. $x + y \geq 3$

19	(0,0) is in the solution of the inequality	B. $x - y \geq 2$ C. $3x + 2y \geq 5$ D. $3x - 2y \leq 2$
20	Question Image	
21	Question Image	
22	(0,1) is in the solution of the inequality	A. $3x + 2y \geq 8$ B. $2x - 3y \leq 4$ C. $2x + 3y \geq 5$ D. $x - 2y \leq -5$
23	Question Image	
24	(1,0) is in the solution of the inequality	A. $3x + 2y \geq 8$ B. $2x - 3y \leq 4$ C. $2x + 3y \geq 3$ D. $x - 2y \leq -5$
25	Which of the following is not a quadrantal angle	A. 90° B. 100° C. 180° D. 270°
26	(1, 1) is the in the solution of the inequality	A. $3x + 4y \geq 3$ B. $2x + 3y \leq 2$ C. $4x = 3y \geq 5$ D. $2c - 3y \geq 2$
27	Which of the following is a quadrantal angle	A. 30° B. 45° C. 60° D. 90°
28	Question Image	A. 30° B. 45° C. 60° D. 90°
29	Question Image	
30	The solution set of the inequality $ax + by < c$ is	A. straight line B. half plane C. parabola D. none of these