

ECAT Pre General Science Mathematics Online Test

Sr	Questions	Answers Choice
1	Question Image	A. I and III quadrants B. II and III quadrants C. I and II quadrants D. II and IV quadrants
2	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
3	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
4	Question Image	
5	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
6	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
7	Question Image	
8	Question Image	
9	The point _____ is in the solution of the inequality $2x - 3y < 4$	A. (0, -2) B. (1, -3) C. (2, 2) D. (3, 0)
10	Question Image	
11	(2, 1) is in the solution of the inequality	A. $2x + y > 7$ B. $x - y > 2$ C. $3x + 5y < 6$ D. $2x + y < 6$
12	Question Image	
13	The point _____ is in the solution of the inequality $4x - 3y < 2$	A. (0,1) B. (2,1) C. (2,2) D. (3,3)
14	The point _____ is in the solution of the inequality $2x - 3y > 5$	A. (1, -1) B. (2,2) C. (0,0) D. (3,0)
15	The point _____ is in the solution of the inequality $2x + 3y < 5$	A. (1,1) B. (2,2) C. (0,1) D. (0,2)
16	Question Image	
17	(1, 2) is in the solution of the inequality	A. $2x + y > 8$ B. $2x + y < 6$ C. $2x - y > 1$ D. $2x + 3y < 2$
18	(0,0) is in the solution of the inequality	A. $x + y > 3$ B. $x - y > 2$ C. $3x + 2y > 5$ D. $3x - 2y < 2$
19	Question Image	

20	Question Image	
21	(0,1) is in the solution of the inequality	<p>A. $3x + 2y > 8$ B. $2x - 3y < 4$ C. $2x + 3y > 5$ D. $x - 2y < -5$</p>
22	Question Image	
23	(1,0) is in the solution of the inequality	<p>A. $3x + 2y > 8$ B. $2x - 3y < 4$ C. $2x + 3y > 3$ D. $x - 2y < -5$</p>
24	Which of the following is not a quadrantal angle	<p>A. 90° B. 100° C. 180° D. 270°</p>
25	(1, 1) is the in the solution of the inequality	<p>A. $3x + 4y > 3$ B. $2x + 3y < 2$ C. $4x = 3y > 5$ D. $2c - 3y > 2$</p>
26	Which of the following is a quadrantal angle	<p>A. 30° B. 45° C. 60° D. 90°</p>
27	Question Image	<p>A. 30° B. 45° C. 60° D. 90°</p>
28	Question Image	
29	The solution set of the inequality $ax + by < c$ is	<p>A. straight line B. half plane C. parabola D. none of these</p>
30	The points (x, y) which satisfy a linear inequality in two variables x and y from its	<p>A. domain B. range C. solution D. none of these</p>