

ECAT Mathematics Chapter 20 Analytic Geometry

Sr	Questions	Answers Choice
1	Axes remain parallel to the old axes, in:	A. Translating of axes B. rotation of axes C. Translation and rotation of axes D. None of these
2	The cartesian system of coordinates was introduced by:	A. Eulaer B. Euclid C. Descrates D. Maccream
3	In translation of axes, _____ is shifted to another point in the plane.	A. a-axis B. y-axis C. origin D. Point
4	The points (5,2),(-2,3),(-3,-4) and (4,-5) are the vertices of:	A. rhombus B. Parallelogram C. rectangle D. square
5	If a point (p,q) is equidistant from the points (5,3) and (-2,-4), then $p+q =$	A. -1 B. 1 C. 3 D. -3
6	The points (3,1), (-2,-3) and (2,2) are the vertices of :	A. Equilateral triangle B. Isosceles triangle C. right -angled triangle D. rhombus
7	Three points (-2,2) (8,-2) and (-4,3) are vertices of a :	A. Isosceles triangle B. right-angled triangle C. Equilateral trainagle D. Rectangle
8	If the line is parallel to they y-axis, then m is said to be:	A. zero B. undefined C. 1/2 D. -1
9	Shifting origin to (-3,2), the new coordinates of (-6,9) are:	A. (-9,7) B. (3,7) C. (-3,7) D. (3,-7)
10	The distance between the parallel lines $3x - 4y + 3 = 0$ and $3x - 4y + 7 = 0$ is:	A. 2/3 B. 9/13 C. 4/5 D. 7/12
11	The points A, B and C are said to be collinear if they:	A. be on same line B. have same slope C. Lie on a same plane D. options a & b
12	Shifting origin to (1,-2), the new coordinates of (4,5) are:	A. (3,7) B. (5,3) C. (-3,7) D. (3,-7)
13	The coordinates of a point which trisects segment joining (0,0) and (9,12) are:	A. (4,3)(8,6) B. (4,3)(6,8) C. (3,4)(6,8) D. (3,4)(8,6)
14	The medians of a triangle are:	A. Collinear B. Concurrent C. Perpendicular D. zero
15	If points (5 , 5), (10 , x) and (-5 , 1) are collinear, $x =$	A. 5 B. 3 C. 9 D. 7

16	The distance between lines $3x + 4y = 9$ and $6x + 8y = 15$ is:	<p>A. $2/3$ B. $3/10$ C. 8 D. $6/5$</p>
17	The length of perpendicular from $(-2,3)$ to the line $y=2x-3$ is:	<p>A. $5\sqrt{2}$ B. 6 C. $2\sqrt{5}$ D. 7.5</p>
18	The distance between two parallel lines $2x - 5y + 13 = 0$ and $-2x + 5y - 6 = 0$ is:	<p>A. $\sqrt{29}$ B. $8/\sqrt{29}$ C. $7/\sqrt{29}$ D. $29\sqrt{7}$</p>
19	The distance of a point $(x \cos\theta, x \sin\theta)$ from origin is:	<p>A. x B. $x \tan\theta$ C. $-\tan\theta$ D. $-\cot\theta$</p>
20	If points $(-1, h)$, $(3,2)$ and $(7,3)$ are collinear then $h=$	<p>A. 3 B. 4 C. 0 D. None of these</p>