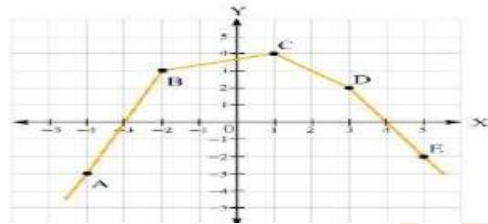


Class: 9
Subject: Mathematics
Topic: Coordinate Geometry
No. of Questions: 20

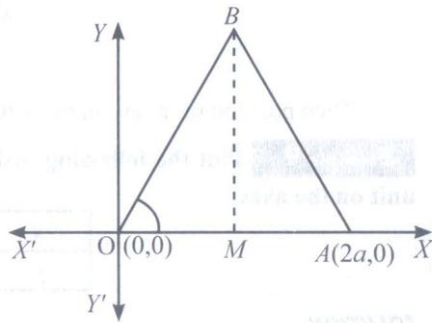
- Q1. What is coordinate geometry?
- Q2. Find the equation of a line parallel to x-axis at a distance of 2 units below x axis?
- Q3. What is Cartesian system?
- Q4. See graph and Find what the values of x are when the value of y is zero?



What do you mean by collinear and non collinear points?

- Q5. In which quadrant can a point have?
(a) Abscissa = its ordinate
(b) Ordinate = in magnitude to abscissa
- Q6. What is quadrant?
- Q7. Determine the point on graph of the linear equation $4x-5y = 7$ whose
(a) Abscissa is thrice the ordinate
- Q8. Determine the point on graph of the linear equation $4x-5y = 7$ whose
(a) Ordinate is $\frac{2}{5}$ times of abscissa
- Q9. In which quadrant can a point have?
(a) Ordinate = and opposite of abscissa
(b) Abscissa twice that of the ordinate

- Q10. The area of a triangle is 5. Two of its vertices are (2, 1) and (3, -2). The third vertex lies on $y = x+3$ find the third vertex.
11. In the figure OAB is an equilateral triangle. Find the co-ordinate of vertex B.



- Q12. Prove that the points (-2, -1), (-1, 1), (5, -2) and (4, -4) are the vertices of a rectangle.
- Q13. Find the ratio in which the point $(\frac{1}{2}, 6)$ divides the line segment joining the points (3, 5) and (-7, 9)
- Q14. Find the values of x for which the distance between the points A(x, 5) and B(0, -3) is $4\sqrt{5}$ units.
- Q15. Find the point on the line joining A(5, -4) and B(-3, 2) so that it is twice as far from A as from B.
- Q16. Find the coordinate of the point whose abscissa is 5 and which lies on x-axis.
- Q17. Find the area of the triangle formed by the mid-points of the sides of ΔABC Where A (3, 2) B(-5, 6) and C(8, 3).
- Q18. In which quadrant or on which axis do each of the points (-2, 4), (3, -1), (-1, 0), (1, 2) and (-3, -5) lie? Verify your answer by locating them on the Cartesian plane.

- Q19. Find the centroid of the triangle formed by the lines $x = 0$, $y = 0$ and $x+y = 10$ as sides.
- Q20. Find a if the distance between the points $A(8, -7)$ and $B(-4, a)$ is 13 units.

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