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## MATHS

## BOOKS - BEYOND PUBLICATION

## CO-ORDINATE GEOMETRY

Example

1. Find the distance covered by the knight in
eanch of its 8 moves i.e., find the distance of A,
$\mathrm{B}, \mathrm{C}, \mathrm{D}, \mathrm{E}, \mathrm{F}, \mathrm{G}$ and H from the origin. $\left(A S_{5}\right)$
2. What is the distance between two points H and $C$ ?And find the distance between two points A and $\mathrm{B}\left(A S_{1}\right)$

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3. Where do these following points lie (-4,0),
$(2,0),(6,0),(-8,0)$ on coordi- nate plane ?
$\left(A S_{3}\right)$

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4. What is the distance between points (-4,
$0)$ and $(6,0)$ on coordinate plane?

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5. Find the distance between the following points.
$(3,8)(6,8)$.
6. Find the distance between the following points.
$(-4,-3)(-8,-3)$

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7. Find the distance between the following points.
$(3,4)(3,8)$
8. Find the distance between the following points.
$(-5,-8)(-5,-12)$

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9. Find the distance between the following points.
$\mathrm{A}=(2,0)$ and $\mathrm{B}(0,4)\left(A S_{1}\right)$

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10. Find the distance between the following points.
$P(0,5)$ and $Q(12,0)$.

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11. Find the distance between the following pair of points.
$(7,8)$ and $(-2,3)$

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12. Find the distance between the following pair of points: $(-8,6)$ and $(2,0)$

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13. Where so these following points lie- ( $0,-3$ )
, $(0,-8),(0,6),(0,4)$ on coordi- nate plane?
$\left(A S_{3}\right)$

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14. What is the distance between $(0,-3),(0,-$ 8) and justify that the distance between two points on $Y$ - axis is $\left|y_{2}-y_{2}\right|$ on coordinate plane ? $\left(A S_{1}, A S_{3}\right)$

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15. Find the distance between points ' O ' ( origin ) and 'A' $(7,4)$. $\left(A S_{1}\right)$
16. Find the distance between $A(1,-3)$ and $B$ (-

4, 4) and rounded to two decimals. $\left(A S_{1}\right)$

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17. How will you find the distance between two
points in which $x$ or $y$ coordinates are same but not zero like $(2,4)$ and $(2,9)$ ?

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18. Ramu says the distance of a point $P(x . y)$
from the origin $\mathrm{O}(0,0)$ is $\sqrt{x^{2}+y^{2}}$. Do you agree with Ramu or not? Why? $\left(A S_{2}, A S_{3}\right)$

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19. Ramu also writes the distance formula as
$A B=\sqrt{\left(x_{1}-x_{2}\right)^{2}+\left(y_{1}-y_{2}\right)^{2}} \cdot$ why ?

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20. Sridhar calculated the distance between T (
$5,2)$ and ( $R(-4,-1)$ to the nearest tenth is 9 .
5 units. Now you find the distance between P(
$4,1)$ and $Q(-5,-2)$. Do you get the same answer that Sridhar got ? Why ? $\left(A S_{2}, A S_{3}\right)$

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21. What is the distance between $A(4,0)$ and B $(8,0)$ ?
22. $A$ and $B$ are two points given by ( 8,3 ), ($4,3)$. Find the distance between $A$ and $B$.

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23. Find the distance between two points A ( 4
, 3) and B $(8,6) \cdot\left(A S_{1}\right)$

- Watch Video Solution

24. Show that the points $A=(4,2), B(7,5)$
and $C(9,7)$ are collinear.

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25. Are the points $(3,2),(-2,-3)$ and $(2,3)$
form a triangle ? $\left(A S_{2}\right)$

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26. Show that the points $(1,7),(4,2),(-1$,
-1) and (-4, 4) are vertices of a square. $\left(A S_{2}\right)$

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27. Figure shows the arrangement of desks in
a classroom. Madhuri, Meena , Pallavi are seated at $A(3,1), B(6,4)$ and $C(8,6)$ respectively. Do you think they are seated in a
line? Give reasons for your . $\left(A S_{2}\right)$


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28. Find the relation between $x$ and $y$ such that point $(x, y)$ is equidistant from the points (7,
1) and ( 3,5 ).

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29. Find a point on the $Y$-axis which is equidistant from both the points. $A(6,5)$ and $B(-4,3)$.

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30. Find the distance between the following pair of points.
$(2,3)$ and $(4,1)$
$\left(A S_{1}\right)$

- Watch Video Solution

31. Find the distance between the following pair of points.
$(-5,7)$ and (-1, 3)

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32. Find the distance between the following pair of points.
$(-2,-3)$ and ( 3,2 )

## D Watch Video Solution

33. Find the distance between the following pair of points.
( $\mathrm{a}, \mathrm{b}$ ) and ( $-\mathrm{a},-\mathrm{b}$ )
34. Find the distance between the points ( 0 ,
$0)$ and ( 36,15 ) .
$\left(A S_{1}\right)$

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35. Verify that the points $(1,5),(2,3)$ and (-2
, -1 ) are collinear or not .
$\left(A S_{2}\right)$

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36. Check whether $(5,-2),(6,4)$ and $(7,-2)$ are the vertices of an isosceles traingle .

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37. In a classroom, 4 friends are seated at the points $A, B, C$ and $D$ as shown in figure. Jarina and Phani walk into the class and after observing for a few minutes Jarina asks Phani
"Don't you think ABCD is a square?" Phani disagrees. Using distance formula. Find which
of them is correct. Why?

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38. Show that the following points form an equilateral triangle $A(a, 0)$,
$\left(A S^{2}\right)$
B $(-\mathrm{a}, 0), C(0, a \sqrt{3})$.

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39. Prove that the points $(-7,-3),(5,10),($
$15,8)$ and $(3,-5)$ taken in order are the corners of a parallelogram .
$\left(A S_{2}\right)$

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40. Show that the points $(-4,-7),(-1,2),(8$,
5) and (5, -4) taken in order are the vertices of
a rhombus. And find its area.
(Hint : Area of rhombus $=\frac{1}{2} \times$ pro-duct of its diagonals ) $\left(A S_{2}, A S_{4}\right)$

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41. Name the type of quadrilateral formed, if any, by the points, and give reasons for your answer.
$(-3,5),(3,1),(1,-3),(-5,1)$
42. Name the type to quadrilateral formed, if any , by the following points, and give reasons for your answer. $\left(A S_{2}\right)$ $(-3,5),(1,10),(3,1),(-1,-4)$.

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43. Name the type of quadrilateral formed, if any, by the points, and give reasons for your answer.
$(4,5),(7,6),(4,3),(1,2)$
44. Find the point on the $X$ - axis which is equidistant from ( $2,-5$ ) and (-2,9). $\left(A S_{1}\right)$

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45. If the distance between two points ( $x, 7$ ) and $(1,15)$ is 10 , find the value of $\mathrm{x} .\left(A S_{1}\right)$
46. Find the value of $y$ for which the distance between the points $P(2,-3)$ and $Q(10, y)$ is 10 units. $\left(A S_{1}\right)$

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47. Find the radius of the circle whose centre
is $(3,2)$ and passes through $(-5,6) \cdot\left(A S_{4}\right)$
48. Can you draw a triangle with vertices ( 1,5 )
, $(5,8)$ and $(13,14)$ ? Give reason.$\left(A S_{2}\right)$

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49. Find a relation between $x$ and $y$ such that the point $(x, y)$ is equi-distant from the points $(-2,8)$ and $(-3,-5) \cdot\left(A S_{3}\right)$

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50. Find the coordinates of the point which divides the line segment join- Ing the points ( $4,-3)$ and $(8,5)$ in the ratio $3: 1$ internally . $\left(A S_{1}\right)$

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51. Find the midpoint of the line segment joining the points ( 3,0 ) and ( $-1,4$ ) . $\left(A S_{1}\right)$
52. Find the coordinates of the points of trisection of the line segment joining the points $\mathrm{A}(2,-2)$ and $\mathrm{B}(-7,4) .\left(A S_{1}\right)$

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53. Find the centroid of the triangle whose
vertices are $(3,-5),(-7,4),(10,-2)$ respectively. $\left(A S_{1}\right)$
54. In what ratio does the point $(-4,6)$ divide the line segment joining the points $A(-6,10)$ and $\mathrm{B}(3,-8) ?\left(A S_{1}\right)$

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55. Find the ratio in which the $Y$ - axis divides
the line segment joining the points ( $5,-6$ ) and
(-1, - 4). Also find the point of intersection
$\left(A S_{1}\right)$
56. Show that the points $A(7,3), B(6,1), C(8$
, 2) and $D(9,4)$ taken in that order are vertices of a parallelogram . $\left(A S_{2}\right)$

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57. If the points $A(6,1), B(8,2), C(9,4)$
and $D(p, 3)$ are the vertices of a par allelogram, taken in order, find the value of $P$.
58. Find the point which divides the line segment joining the points $(3,5)$ and $(8,10)$ internallly in the ratio $2: 3 .\left(A S_{1}\right)$

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59. Find the midpoint of the line segment joining the points $(2,7)$ and $(12,-7) .\left(A S_{1}\right)$
60. Find the trisectional points of line joining(
$2,6)$ and $(-4,8) .\left(A S_{1}\right)$

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61. Find the coordinates of the point which divides the line segment join-ing the points (-
$1,7)$ and ( $4,-3$ ) in the ratio $2: 3\left(A S_{1}\right)$

## D Watch Video Solution

62. Find the points of trisection of the line segment joining ( 2,3 ) and (11,6).

## D Watch Video Solution

63. Find the ratio in which the line segment
joining the point $(-3,10)$ and $(6,-8)$ is
divided by (-1, 6). $\left(A S_{1}\right)$

D Watch Video Solution
64. If $(1,2),(4, y),(x, 6)$ and $(3,5)$ are the
vertices of a parallelogram taken in order, find
x and y. $\left(A S_{4}\right)$

## D Watch Video Solution

65. Find the coordinates of a point $A$, where
$A B$ is the diameter of a circle whose centre is (
$2,-3)$ and B is $(1,4) \cdot\left(A S_{4}\right)$

D Watch Video Solution
66. If $A$ and $B$ are $(-2,-2)$ and $(2,-4)$
respectively. Find the coordinates of $P$ such
that $A P=\frac{3}{7} A B$ and $P$ lies on the segment $A B$
. $\left(A S_{1}\right)$

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67. Find the coordinates of points which divide
the line segment joining $A(-4,0)$ and $B(0,6)$ into four equal parts. $\left(A S_{1}\right)$
68. Find the area of the triangle formed by the following points
$(2,0),(1,2),(1,6)$

## D Watch Video Solution

69. Find the area of the triangle formed by the
following points
$(3,1),(5,0),(1,2)$

- Watch Video Solution


## 70. Find the area of the triangle formed by the

## following points

$(-1,5,3),(6,2),(-3,4)$

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71. Find the area of the triangle whose vertices
are: $(5,2)(3,-5)$ and $(-5,-1)$.

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72. Find the area of the triangle whose vertices are
$(6,-6),(3,-7)$ and ( 3,3$)$.

## - Watch Video Solution

73. Verify whether the following points are collinear or not .
$(1,-1),(2,3),(2,0)$
74. Verify whether the following points are collinear or not.
$(1,-1),(2,3),(2,0)$

- Watch Video Solution

75. Verify whether the following points are collinear or not.

$$
(1,-6),(3,-4),(4,-3)
$$

76. Find the area of the triangle whose lengths of sides are $15 \mathrm{~m}, 17 \mathrm{~m}, 21 \mathrm{~m}$ (use Heron 's

Formula ) $\left(A S_{1}, A S_{2}\right)$

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77. Find the area of the triangle formed by the points $(0,0),(4,0),(4,3)$ by unsing Heron's formula. $\left(A S_{1}\right)$

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78. Find the area of a triangle whose vertices
are $(1,-1),(-4,6)$ and $(-3,-5) .\left(A S_{1}\right)$

D Watch Video Solution
79. Find the area of a triangle formed by the points $\mathrm{A}(5,2), \mathrm{B}(4,7)$ and $\mathrm{C}(7,-4) .\left(A S_{1}\right)$

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80. If $A(-5,7), B(-4,-5), C(-1,-6)$ and $D(4,5)$ are the vertics of a quadrilateral. Then, find the area of the quadrilateral ABCD.

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81. The points $(3,-2),(-2,8)$ and $(0,4)$ are
three points in a plane . Show that these points are collinear . $\left(A S_{2}\right)$
82. Find the value of ' $b$ ' for which the points
$A(1,2), B(-1, b)$ and $C(-3,-4)$ are collinear.

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83. Find the area of the triangle whose vertices
are: $(2,3),(-1,0),(2,-4)$

## D Watch Video Solution

84. Find the area of the triangle whose vertices are: $(5,2)(3,-5)$ and $(-5,-1)$.

## D Watch Video Solution

85. Find the area of the triangle whose vertices
are $\left(A S_{1}\right)$
$(0,0),(3,0),(0,2)$

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86. Find the valueof ' K ' for which the points are
collinear. $\left(A S_{1}\right)$
$(7,-2),(5,1),(3, K)$

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87. Find the value of ' $K$ ' for which the points
are collinear . $\left(A S_{1}\right)$
$(8,1),(K,-4),(2,-5)$

- Watch Video Solution

88. Find the value of ' $K$ ' for which the points
are collinear . $\left(A S_{1}\right)$
$(K, K),(2,3)$ and ( $4,-1)$

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89. Find the area of the triangle formed by
joining the mid-points of the sides of the triangle whose vertices are $(0,-1),(2,1)$ and
$(0,3)$. Find the ratio of this area to the area of the given triangle . $\left(A S_{1}\right)$
90. Find the area of the quadrilateral whose vertices taken inorder are (-4,-2),(-3,-5),( $3,-2)$ and $(2,3)\left(A S_{1}\right)$

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91. Find the area of the triangle formed by the points $(8,-5),(-2,-7) \&(5,1)$ by using Hero's formula.
92. Plot these points on the coordinate axis and join them $\left(A S_{3}\right)$
which gives a straight line ? Which in not why
?
$A(1,2), B(-3,4), C(7,-1)$

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93. Plot these points on the coordinate axis
and join them $\left(A S_{3}\right)$
which gives a straight line ? Which in not why
$P(3,-5), Q(5,-1) R(2,1), S(1,2)$

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94. Find the slope of $\quad \Longleftrightarrow \overrightarrow{A B}$ with the given end points
$A(4,-6), B(7,2)$

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95. Find the slope of $\quad \overleftrightarrow{A B}$ with the given end points

A ( $8,-4), \mathrm{B}(-4,8)$

- Watch Video Solution

96. Find the slope of $\quad \overleftrightarrow{A B}$ with the given end points
$A(-2,-5), B(1,-7)$
97. Does $y=x+7$ represent a straight line ?

Draw the line on the coordinate plane. At which point does this line intersect $Y$-axis ?

How much angle does it make with X - axis ?
Discuss with your friends. $\left(A S_{3}, A S_{5}\right)$

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98. Find the slope $\quad \Longleftrightarrow \stackrel{A B}{ }$ with the points lying on $A(3,2),(B(-8,2)$. When the line $\stackrel{\Longleftrightarrow}{A B}$ parallel to X - axis ? Why ? Think and discuss with your friends in groups. $\left(A S_{2}, A S_{3}\right)$
99. Find the slope of $\quad \overleftrightarrow{\mid B}$ with the points
lying on $\left(A S_{1}\right)$
$A(2,1), B(2,6)$

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100. Find the slope of $\quad \overleftrightarrow{A B}$ with the points
lying on $\left(A S_{1}\right)$
$A(-4,2), B(-4,-2){ }^{\prime}$

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101. Find the slope of $\quad \overleftrightarrow{A B}$ with the points
lying on $\left(A S_{1}\right)$
$A(-2,8), B(-2,-2)$

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102. The end points of a line segment are (2,
$3),(4,5)$. Find the slope of the line
103. Determine ' $x$ ' so that 2 is the slope of the
line passing through $A(-2,4)$ and $B(x,-2)$.

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104. Find the slope of the line passing through
the given two point
$A(3,-2), B(-6,-2)$

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105. Find the slope of the line joining the two given points $\left(A S_{1}\right)$
( $2 \mathrm{a}, 3 \mathrm{~b}$ ) and ( a , - b).

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106. Find the slope of the line joining the two given points $\left(A S_{1}\right)$
$(a, 0)$ and $(0, b)$.

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107. Find the slope of the line joining the two
given points $\left(A S_{1}\right)$
$A(-1.4,-3.7), B(-2.4,1.3)$.

- Watch Video Solution

108. Find the slope of the line passing through
the given two point
$A(3,-2), B(-6,-2)$

- Watch Video Solution

109. Find the slope of the line joining the two given points $\left(A S_{1}\right)$
$A\left(-3 \frac{1}{2}, 3\right), B\left(-7,2 \frac{1}{2}\right)$.

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110. Find the slope of the line joining the two given points $\left(A S_{1}\right)$
$A(0,4), B(4,0)$

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111. Centre of a circle $Q$ is on the $Y$-axis. The circle passes through the points $(0,7)$ and ( 0,
-1). If it intersects the positive $X$-axis at ( $P, 0$ ), what is the value of ' $P$ '?

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112. The circumcenter of the triangle formed by the point $(1,2,3)(3,-1,5),(4,0,-3)$ is

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113. The side BC of an equilateral $\triangle A B C$ is
parallel to $X$ - axis. Find the slopes of line along sides $B C, C A$ and $A B$.

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114. A right triangle has sides 'a' and ' $b$ ' where
$a>b$. If the right angle is bisected then find the distance between orthocentres of the smaller triangles using coordinate geometry.
115. Find the centroid of the triangle formed by the line $2 x+3 y-6=0$ with the coordinate axes.

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116. Where do the points $(0,-3)$ and $(-8,0)$
lie on co-ordinate axis ?

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117. Find the centroid triangle whose ver-tices
are $(3,4)(-7,-2)$ and $(10,-5)$.

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118. Show that the points $A=(4,2), B(7,5)$
and $C(9,7)$ are collinear.

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119. Name the type of the quadrilateral formed by joining the points $A(-1,-2) B(1,0), C(-1$,
2) and $D(-3,0)$ are graph paper, justify your answer .

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120. Find the mid point of the line segment
formed by the points $(-5,5)$ and $(5,-5)$.
121. Show that the points $A(-3,3) B(0,0) C(3,-3)$ are collinear.

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122. Find the trisection points of the line segment joined by the points (-3,3) and (3,$3)$.
123. Find the distance between the following pairs of points.
$(3,4)$ and $(6,2)$

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124. Find the distance between the following pairs of points.
$(-4,6)$ and ( 0,2 )

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125. Find the distance between the following pairs of points.
(-a,b) and (a,-b)

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126. Verify whether the points $A(1,3), B(3,5)$ and
$C(-4,20)$ are collinear or not.

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127. Show that $(5,3),(1,2)$ and $(-3,1)$ are the vertices of an isosceles triangle.

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128. Show that the points $(0,-2),(3,2),(0,6)$ and $(-3,2)$ are the vertices of a square.

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129. Show that points $(2,4),(3,7),(6,8)$ and $(5,5)$ are the vertices of a Rhombus.

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130. Find the co-ordinates of the point which divides the line segment joining the points $(-2,6)$ and $(3,-4)$ in the ratio $3: 5$.

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131. Find the ratio in which the $X$-axis divides
the line segment joining the points ( $6,-2$ ) and $(4,1)$ also find the point of intersection.

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132. Find the ratio in which the $Y$-axis divides
the line segment joining the points $(9,4)$ and $(3,-2)$.Also find the point of intersection.
133. Find the centroid of the triange whose vertices are given below
(1,6),(7,4),(1,5)

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134. Find the centroid of the triange whose
vertices are given below
$(1,0),(-3,-3),(-4,-3)$
135. Find the area of the triangle whose vertices are
$(3,4),(0,10),(3,-3)$

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136. Find the area of the triangle whose vertices are
(2,10),(4,7),(0,-1)

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137. Find the value of ' $k$ ' for which the points are collinear.
(k,9),(7,7),(1,5)

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138. Find the value of ' $k$ ' for which the points
are collinear.
(6,-1),(k,-6),(0,-7)

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139. Find the value of ' $k$ ' for which the points are collinear.
(k,k),(1,2),(3,-2)

- Watch Video Solution

140. Find the slope of the line joining the points.
( $7,-5$ ) and ( 8,1 )
141. Find the slope of the line joining the points.
(4a,6b) and (a,-b)

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142. Find the slope of the line joining the points.
( $5,-1$ ) and ( $-8,0$ )

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143. Find the slope of a line whose inclination is

## D Watch Video Solution

144. Find the slope of a line whose inclination is
$135^{\circ}$
145. Find the slope of the line whose inclination is
$120^{\circ}$

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146. Find the slope of a line whose inclination is
$135^{\circ}$
147. If $(6,7)$ is the mid point of the line segment joining $A(7,6)$ and $B(5, y)$, find ' $y$ '.

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148. Find the value of " $p$ " for which the points are collinear (6,2),(5,-1),(4,p).

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149. Find the value of " S " for $(7, S),(3,-2)(7,8)$ are collinear.

150 . Find the distance between $(5,6)(-2,3)$.

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151. Find the distance between $(-2,3)$ and $(5,-3)$.

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152. Find the co-ordionates of the points of trisection of the line segment joining the points $A(3,-3)$ and $B(-5,2)$.

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153. Find the co-ordinates of the points of trisection of the line segment joining the points $A(0,5)$ and $B(-3,2)$.
154. If $A(-2,3) B(-7,-3) C(2,5) D(5,7)$ are the vertices of the quadrilateral then find the area of the quadrilateral $A B C D$.

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155. If $\mathrm{A}(-3,5) \mathrm{B}(6,0) \mathrm{C}(5,1) \mathrm{D}(-3,2)$ are the vertices of the quadrilateral then find the area of the quadrilateral $A B C D$.
156. Find the area of the triangle. Whose lenghts of sides are $14 \mathrm{~m}, 16 \mathrm{~m}, 20 \mathrm{~m}$.

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157. Find the area of the triangle, whose length of sides are $21 \mathrm{~m}, 30 \mathrm{~m}, 35 \mathrm{~m}$.

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158. Find the distance between $(3,5)$ and $(7,0)$.
159. Find the distance between points origin and (8,5).

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160. If distance between $(x, 5)(4,5)$ is 36 then
find the value of $x$.

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161. If $A(2,3) \quad B(5,6) \quad C(1,2)$ are the points of
$\triangle A B C$ then perimenter of $\triangle A B C$.

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162. Are the points $(4,2)(-5,-7)$ and $(2,4)$ from a triangle.

- Watch Video Solution

163. Are the points $(1,8)(2,5)(1,2)(4,4)$ are the vertices of a square.

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164. Find the area of the triangle formed by
the points $(8,-5),(-2,-7) \&(5,1)$ by using Hero's formula.

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165. Find the trisection points of the line segment. Joined by the points $(-4,4)$ and (4,-4).

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166. Show that $(1,-8)(3,6)(2,-1)$ are collinears.

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167. Are the points $(1,2),(1,0),(4,3),(5,6)$ are the
vertices of a rhombus.

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168. Check whether the points $(5,4)(3,6)$ and
$(-2,-1)$ are the vertices of a right angles triangle.

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169. Can you draw a triangle with vertices
$(-2,-2)(4,50(0,11)$ ? Give reason.
170. Find the slope of the line joining the points are $(8,-2)(5,6)$.

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171. The slope of the line $\frac{x}{a}+\frac{y}{b}=1$

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172. Find the centroid of $\triangle A B C$ whose vertices are $A(-5,6) B(4,1) C(1,2)$.

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173. If the line $y=m x+c$ passing through the points $(0,3),(4,0)$ then intercept is

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174. Find the point on the $Y$-axis which is equidistant from (-5,-2) and (3,2).

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175. Find the value of $p$ for which the points
(P,8),(4,4),(-1,3) are collinear

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176. Find the area of quadrilateral whose coordinates are (1,2),(6,2),(5,3),(3,4).

## D Watch Video Solution

177. Give any five examples of points on $Y$-axis and X -axis.

## D Watch Video Solution

1. Find the distance between the following pairs of points.
$A(-2,5)$ and $B(3,-7)$

## D Watch Video Solution

2. Find the distance between the following pairs of points.
$A(4,5)$ and $B(-3,2)$

- Watch Video Solution

3. Find the distance between the following pairs of points .
$A(-1,2)$ and $B(5,0)$

## D Watch Video Solution

4. Find the distance between the following pairs of points.
$A(6,-4)$ and $B(3,0)$
5. Find the distance between the following pairs of points .
$A(5,-12)$ and $B(9,-9)$

## D Watch Video Solution

6. Find the distance between the following pairs of points .
$A(2,-10)$ and $B(3,4)$

## 7. Show that the following points are collinear.

$(2,4),(0,1),(4,7)$

## - Watch Video Solution

8. Show that the following points are collinear.
$(-2,5),(2,-3),(0,1)$
9. Show that the following points are collinear.
$(1,-8),(3,6),(2,-1)$

D Watch Video Solution
10. Show that the following points are collinear.
$(3,8),(-4,2),(10,14)$

D Watch Video Solution
11. Show that the points $(-2,-1),(1,0),(4,3)$ and
$(1,2)$ are vertices of a parallelogram.

## D Watch Video Solution

12. Show that the points $(1,3),(2,6),(5,7)$ and
$(4,4)$ are the vertices of a rhombus.

## D Watch Video Solution

13. Show that the points $(1,-1),(-2,2),(4,8)$ and $(7,5)$ are the vertices of a rectangle.

## D Watch Video Solution

14. Show that the points $(0,-1),(2,1),(0,3),(-2,1)$ are the vertices of a square.

- Watch Video Solution

15. Can you draw a triangle with vertices (-1,1)
$(2,3)$ and $(8,11)$ ? Give reason.

- Watch Video Solution

16. Find the point on the $Y$-axis which is equidistant from (-5,-2) and (3,2).

D Watch Video Solution
17. Find the retation between $x$ and $y$, If the point $(x, y)$ is to be equidistant from ( $6,-1$ ) and $(2,3)$

## - Watch Video Solution

18. Without using the Pythagoras theorem, show that the points $(4,4),(3,5)$ and
( $-1,-1$ ) are the vertices of a right angled triangle.
19. Find the ratio in which the $X$-axis divided
the line segment joining points (7,-3) and (5,2).

## - Watch Video Solution

20. Find the ratio in which X-axis divides the
line segment joining the points (2, -3 ) and (5,
6). Then find the intersecting point on $X$-axis.
21. Find the co-ordinates of the point which divides the line joining $(5,-2)$ and $(9,6)$ internally in the ratio 1:2.

D Watch Video Solution
22. Find the centroid of the triangle whose vertices are given below.
$(-1,4),(5,2),(-1,3)$

D Watch Video Solution
23. Find the centroid of the triangle whose vertices are given below. (5,4),(1,1),(0,1)

## D Watch Video Solution

24. Find the centroid of the triangle whose
vertices are given below.
$(-1,0),(5,-2),(8,2)$

D Watch Video Solution
25. Find the centroid of the triangle whose vertices are given below.
(2,8),(7,3),(-1,-1)

- Watch Video Solution

26. Find the area of the triangle whose vertices
are
$(3,4),(7,8),(-1,2)$

- Watch Video Solution

27. Find the area of the triangle whose vertices are
$(2,-7),(1,3),(10,8)$

## - Watch Video Solution

28. Find the area of the triangle whose vertices
are
$(1,8),(2,5),(-2,-3)$

D Watch Video Solution
29. Find the area of the triangle whose vertices
are
$(-2,4),(2,-6),(5,4)$

## - Watch Video Solution

30. Find the value of ' $K$ ' for which the points are collinear.
(K,7),(5,5),(-1,3)
31. Find the value of ' $K$ ' for which the points are collinear.
$(3,8),(-4,2),(K, 14)$

- Watch Video Solution

32. Find the value of ' $K$ ' for which the points are collinear.
$(-1,2),(K, 0),(2,1)$
33. Find the value of ' $K$ ' for which the points are collinear.
(7,-2),(5,1),(3,2k)

## - Watch Video Solution

34. Find the area of the quadrilateral whose
vertices taken inorder are (-4,-2),(-3,-5),(
$3,-2)$ and $(2,3)\left(A S_{1}\right)$

D Watch Video Solution
35. Find the area of the quadrilaterals, the coordinates of whose vertices are given below. (1,2),(6,2),(5,3),(3,4)

## - Watch Video Solution

36. Find the area of the quadrilaterals, the coordinates of whose vertices are given below. $(2,1),(6,0),(5,-2),(-3,-1)$.
37. Find the area of the quadrilaterals, the coordinates of whose vertices are given below. (0,0),(a,0),(a,b),(0,b).

## - Watch Video Solution

38. Find the area of the quadrilaterals, the coordinates of whose vertices are given below.
$(1,1),(7,-3),(12,2),(7,21)$

- Watch Video Solution

39. Find the slope of the line joining the points.
(5,-2) and (-1,4)

D Watch Video Solution
40. Find the slope of the line joining the points.
$(3,5)$ and $(-1,-1)$

D Watch Video Solution
41. Find the slope of the line joining the points.
$(5,6)$ and $(2,3)$

## D Watch Video Solution

42. Find the slope of the line joining the points.
$(9,-2)$ and $(6,-5)$

D Watch Video Solution
43. Find the slope of the line joining the points.
$(8,2)$ and (-5,3)

D Watch Video Solution
44. Find the slope of the line joining the points.
$(4,5)$ and (0,-2)
45. Find the slope of the line joining the points.
$(-2,-1)$ and $(4,0)$

D Watch Video Solution
46. Find the slope of the line joining the points.
(4,-6) and (-2,-5)

D Watch Video Solution
47. Find the slope of a line whose inclination is
$60^{\circ}$

- Watch Video Solution

48. Find the slope of a line whose inclination is
$45^{\circ}$

- Watch Video Solution

49. Find the slope of a line whose inclination is
$90^{\circ}$

D Watch Video Solution
50. Find the slope of a line whose inclination is
$150^{\circ}$

D Watch Video Solution
51. If $(5,6)$ is the mid point of the line segment joining $A(6,5)$ and $B(4, y)$, find ' $y$ '.

## - Watch Video Solution

52. If $A(1,2), B(3,4)$ and $C(6,6)$ are the three vertices of a parallelogram $A B C D$, find the coordinates of the fourth vertex $D$.

## - Watch Video Solution

## 53. The scientist who introduced co-ordinate

## Geometry is

A. J.J.Sylvester
B. Crames
C. Rene Descartes
D. Newton

## Answer:

D Watch Video Solution
54. The distance between the points ( $x, 1$ ) and
$(1, y)$ is

$$
\begin{aligned}
& \text { A. } \sqrt{(x+1)^{2}+(y+1)^{2}} \\
& \text { B. } \sqrt{(1-x)^{2}+(y-1)^{2}} \\
& \text { C. } \sqrt{(x-1)^{2}+(y+1)^{2}} \\
& \text { D. } \sqrt{(x+1)^{2}+(y-1)^{2}}
\end{aligned}
$$

Answer:

- Watch Video Solution

55. A point on $Y$-axis is
A. $(3,0)$
B. $(1,2)$
C. $(0,0)$
D. $(0,3)$

Answer:

D Watch Video Solution
A. Isosceles triangle
B. Equilateral triangle
C. Right angle triangle
D. Scalene triangle

Answer:

## 57. The slope of the line joining $(4,6)$ and $(2,-5)$

is

> A. $\frac{11}{2}$
> B. $\frac{2}{11}$
> C. $-\frac{2}{11}$
> D. $-\frac{11}{2}$

Answer:
(D) Watch Video Solution
58. The distance between $(7,0)$ and $(4, k)$ is 5
units then $\mathrm{k}=$
A. -4
B. $\pm 4$
C. +4
D. none

Answer:

D Watch Video Solution
59. A strainght line make angle $\theta$ with the X axis then the slope is
A. $-\sin \theta$
B. $\cos \theta$
C. $\tan \theta$
D. $\sec \theta$

Answer:
(D) Watch Video Solution
60. Mid-point of the line points $(-4,2)$ and $(2,8)$ is
A. $(-1,5)$
B. $(-3,-3)$
C. $(-2,10)$
D. $(-6,-6)$

Answer:

- Watch Video Solution

61. $(1,2),(2,3),(3,4)$ are vertices of a traingle then
its centroid is
A. $(6,9)$
B. $(0,-1)$
C. $(2,3)$
D. $(-2,-3)$

Answer:

D Watch Video Solution
62. $(1,2),(2,3),(3,1)$ are the midpoints of the sides
of the triangle then the area of the triangle is
(in.sq.units)
A. 7
B. $\frac{5}{2}$
C. 14
D. 6

## Answer:

63. The co-ordinates of the mid point of the
line joining points $(3,-1)$ and $(5,3)$ is
A. $(8,4)$
B. $\left(\frac{8}{3}, \frac{4}{3}\right)$
C. $(4,2)$
D. $(4,1)$

Answer:
( Watch Video Solution
64. The equation of the line passing through origin having slope
A. $2 x-3 y=0$
B. $2 y=x$
C. $3 x-2 y=0$
D. $3 y-2 x$

Answer:

D Watch Video Solution
65. If a line make an angle $150^{\circ}$ with + ve $X$-axis
then the slope of the line
A. $\sqrt{3}$
B. $-\frac{1}{\sqrt{3}}$
C. $-\sqrt{3}$
D. $\frac{1}{\sqrt{3}}$

Answer:

- Watch Video Solution

66. Slope of the line $3 x-4 y+12=0$
A. $\frac{3}{4}$
B. $-\frac{4}{3}$
C. 4
D. $\frac{1}{\sqrt{3}}$

Answer:

D Watch Video Solution
67. Slope of the line joining points $(2,-3)(1,4)$
A. -7
B. 7
C. -1
D. $\frac{3}{7}$

Answer:
68. Angle made by the line $y=x$ with the positive direction of $X$-axis is
A. $30^{\circ}$
B. $60^{\circ}$
C. $90^{\circ}$
D. $45^{\circ}$

Answer:

D Watch Video Solution
69. The slope of the line $\frac{x}{a}+\frac{y}{b}=1$

$$
\begin{aligned}
& \text { A. }-\frac{a}{b} \\
& \text { B. }-\frac{b}{a} \\
& \text { C. } 1 \\
& \text { D. } \frac{a}{b}
\end{aligned}
$$

Answer:
(D) Watch Video Solution
70. The line $y=m x+c$ cut the $Y$-axis at the point
A. $(0,0)$
B. $(0, \mathrm{c})$
C. $(c, 0)$
D. $(0, m)$

Answer:

- Watch Video Solution

71. The distance of the point $(a, b)$ from the origin.
A. $\sqrt{a+b}$
B. $\sqrt{a^{2}-b^{2}}$
C. $\sqrt{a^{2}+b^{2}}$
D. $\sqrt{a}+\sqrt{b}$

Answer:

- Watch Video Solution

72. The centriod of the traingle made by the vertices $A(-2,3), B(4,1), C(1,2)$ is
A. $(1,2)$
B. $\left(\frac{3}{2}, 2\right)$
C. $(0,0)$
D. $\left(\frac{7}{3}, 2\right)$

Answer:

## D Watch Video Solution

73. The slope of the line is $\frac{2}{5}$ then the slope of the parallel of that line

## 5

A. $\frac{5}{2}$
B. $\frac{2}{5}$
C. $-\frac{5}{2}$
D. 1

Answer:

## D Watch Video Solution

74. If the line $y=m x+c$ passing through the points $(0,3),(4,0)$ then intercept is
A. 4
B. -3
C. -4
D. 3

Answer:

## - Watch Video Solution

75. The line $a x+b y+c=0$ intersects $X$-axis at
A. $\left(\frac{c}{a}, 0\right)$
B. $\left(0,-\frac{c}{b}\right)$
C. $(0,0)$
D. $\left(-\frac{c}{a}, 0\right)$

Answer:

- Watch Video Solution

76. The line $a x+b y+c=0$ intersects $Y$-axis at
A. $\left(0,-\frac{c}{b}\right)$
B. $\left(\frac{c}{b}, 0\right)$
C. $\left(-\frac{c}{b}, 0\right)$
D. $(0,-c)$

## Answer:

## D Watch Video Solution

77. Distance between the points $(0,0)$
$(a \cos \theta, a \sin \theta)$
A. 2
B. $a^{2}$
C. a
D. $\frac{a^{2}}{2}$

## Answer:

## D Watch Video Solution

78. If ' $C$ ' is the mid point of $A(0,0) B(4,8)$. Then
the co-ordinates of the mid-points $B$ and $C$ is
A. $(2,4)$
B. $(3,6)$
C. $(1,2)$
D. $(4,6)$

## Answer:

## D Watch Video Solution

## 79. The slope of the line $y=\frac{1}{2} x$ is

A. 0
B. $\frac{1}{2}$
C. $-\frac{1}{2}$
D. 1

## Answer:

## D Watch Video Solution

80. The equation of the $X$-axis is
A. $y=0$
B. $x=0$
C. $x=y$
D. $x y=0$

Answer:

## D Watch Video Solution

81. The point of intersection of the lines $x=2$
and $y=3$ is
A. $(2,3)$
B. $(3,0)$
C. $(0,2)$
D. $\left(\frac{4}{3}, 1\right)$

Answer:

## - Watch Video Solution

82. If the line $3 x+4 y=k$ passing through the
point $(4,2)$ then $k$
A. 10
B. -20
C. 20
D. -10

## Answer:

## - Watch Video Solution

83. If the distance between two points $(5,2)$
$(3, a)$ is $\sqrt{8}$ units then a
A. -2
B. 2
C. 8
D. 4

## Answer:

## D Watch Video Solution

84. The ratio in which the $Y$-axis dividing the
joining the points $(5,7)(-1,3)$ is
A. $5: 1$
B. 3:7`
C. 2:1
D. $4: 3$

## Answer:

## - Watch Video Solution

85. The point on X-axis

A. $(2,3)$
B. $(2,0)$
C. $(0,4)$
D. $(0,-3)$
A. $(0,2)$
B. $(4,0)$
C. $(-3,4)$
D. $(2,-1)$

## Answer:

## 87. The slope of the line $x=0$

A. 0
B. 1
C. $\infty$
D. -1

Answer:

## D Watch Video Solution

88. The point (4,-7) in.....quadrant
A. $Q_{1}$
B. $Q_{2}$
C. $Q_{3}$
D. $Q_{4}$

Answer:

D Watch Video Solution
89. Slope of the line $a x+b y+c=0$ is

$$
\begin{aligned}
& \text { A. }-\frac{a}{b} \\
& \text { B. } \frac{a}{b} \\
& \text { C. }-\frac{b}{a} \\
& \text { D. } \frac{b}{a}
\end{aligned}
$$

Answer:

90. The line $y=5$ is

A. Parallel to $x$-axis

B. Parallel to $y$-axis
C. Perpendicular to x-axis

D. Perpendicular to $y$-axis

## Answer:

## 91. If the line $2 x-3 y=k$ passes through the origin

then the value of $k$
A. -1
B. 0
C. 1
D. $-\frac{1}{2}$

Answer:

D Watch Video Solution
92. The centriod of the traingle made by the vertices $A(-2,3), B(4,1), C(1,2)$ is
A. $(1,2)$
B. $\left[\frac{3}{2}, 2\right]$
C. $(0,0)$
D. $\left[\frac{7}{3}, 2\right]$

Answer:

- Watch Video Solution

93. Area of the triangle by the points $A(0,0)$, $B(1,0)$ and $C(0,1)$ is ........ sq. units
A. 0
B. $\frac{1}{2}$
C. 1
D. $\frac{1}{4}$

Answer:

D Watch Video Solution
94. Where do these following points lie (-4,
$0),(2,0),(6,0),(-8,0)$ on coordi- nate plane
$?\left(A S_{3}\right)$
A. $Q_{1}$
B. $x$-axis
C. $y$-axis
D. $Q_{4}$

## Answer:

## 95. The distance between $(0,0),\left(x_{1}, y_{1}\right)$ points

is ........... units.
A. $\sqrt{x_{1}^{2}+y_{1}^{2}}$
B. $\sqrt{x_{1}+y_{1}}$
C. $\sqrt{x^{2}+y^{2}}$
D. $\sqrt{x+y}$

Answer:
( Watch Video Solution
96. The distance between the points $\left(x_{1}, y_{1}\right)$
and $\left(x_{2}, y_{2}\right)$ which are on the line parallel to $y$ axis is

$$
\begin{aligned}
& \text { A. }\left|y_{1}-y_{2}\right| \text { or }\left|y_{2}-y_{1}\right| \\
& \text { B. }\left|y_{2}^{2}-y_{1}^{2}\right| \text { or }\left|y_{1}^{2}-y_{2}^{2}\right| \\
& \text { C. } \sqrt{\left(x_{2}-x_{1}^{2}\right)+\left(y_{2}-y_{1}^{2}\right)} \\
& \text { D. }\left|x_{2}-x_{1}\right| \text { or }\left|x_{1}-x_{2}\right|
\end{aligned}
$$

## Answer:

97. The mid point of line segment joined by (4,
5) and ( $-6,3$ ) is
A. $(1,4)$
B. $(-1,4)$
C. $(1,-4)$
D. (-1,-4)

Answer:

D Watch Video Solution
98. The distance to X-axis from the point (3, -4)
is
A. 3
B. 4
C. 5
D. 1

Answer:

- Watch Video Solution

99. If the mid point of $(-4, a)$ and $(2,8)$ is $(-1,5)$
then $\mathrm{a}=. . . . . .$.
A. -4
B. 2
C. 5
D. 8

Answer:

D Watch Video Solution
100. The graph of $y=5$ is
A. Parallel to $x$-axis
B. Perpendicular to X-axis
C. Parallel to $Y$-axis
D. Perpendicular to $y$-axis

## Answer:

## - Watch Video Solution

101. The distance between $(0,7)$ and $(-7,0)$ is....
A. $2 \sqrt{7}$
B. $7 \sqrt{2}$
C. $\sqrt{14}$
D. +1

Answer:

- Watch Video Solution

102. Slope of $Y$-axis is
A. not defined
B. 0
C. well defined
D. finite

## Answer:

## - Watch Video Solution

103. The distance from $X$-axis to $(-4,3)$ is.... units.
A. 2
B. 3
C. -4
D. -1

## Answer:

## D Watch Video Solution

104. The distance from origin to $(2,3)$ is ........units
A. $\sqrt{6}$
B. $\sqrt{5}$
C. $\sqrt{1}$
D. $\sqrt{13}$

## Answer:

## D Watch Video Solution

105. The distance from $Y$ - axis to $(4,0)$ is
units.
A. 4 units
B. $\sqrt{16}$ units

## C. 16 units

## D. $2 \sqrt{2}$ units

## Answer:

## D Watch Video Solution

106. The mid point of $(2,3)$ and $(-2,3)$ is .......
A. $(0,3)$
B. $(-2,0)$
C. $(3,0)$
D. $(-3,2)$

## Answer:

## - Watch Video Solution

107. The centroid of the triangle formed by ( 0 ,
$3),(3,0)$ and $(0,0)$ is
A. $(1,1)$
B. $(0,3)$
C. $(3,3)$
D. $(3,0)$

## Answer:

## D Watch Video Solution

108. Slope of the line that passes through the points $P\left(x_{1}, y_{1}\right)$ and $Q\left(X_{2}, y_{2}\right)$ and making an angle $\theta$ with $X$-axis is
109. Slope of the line passing through the points $(-1,1)$ and $(1,1)$ is ......
A. -1
B. 0
C. 1
D. not defined

Answer:

D Watch Video Solution
110. A point on the $Y$-axis is of form
A. $(0, y)$
B. $(x, 0)$
C. $(x, y)$
D. $(y, y)$

Answer:

D Watch Video Solution
111. A point of the $X$-axis is of the form
A. $(0, y)$
B. $(x, 0)$
C. $(x, y)$
D. $(x, x)$

Answer:

## D Watch Video Solution

112. The distance of the point $(-8,3)$ from the origin is ....
A. 5
B. 55
C. 73
D. 24

Answer:

## D Watch Video Solution

113. The distance of the point $(-4,3)$ from $X$ axis is
A. -4
B. -3
C. 4
D. 3

Answer:

## - Watch Video Solution

114. The distance of the point $(-8,-7)$ from $y$ axis is
A. 8
B. -7
C. -8
D. 7

Answer:

## D Watch Video Solution

115. The points $(-3,0),(0,5)$ and $(3,0)$ are
the vertices of a .....triangle .
A. scalene
B. isosceles
C. equilateral
D. right angled

Answer:

D Watch Video Solution
116. The distance between the points (-2,3)
and $(2,-3)$ is
A. 0
B. 52
C. $\sqrt{52}$
D. 16

Answer:

## D Watch Video Solution

117. If the distance between the points ( $4, y$ )
and $(1,0)$ is 5 then $\mathrm{y}=$
A. 0
B. 4
C. $\pm 4$
D. $\pm 2$

Answer:

## - Watch Video Solution

118. The distance between the points $(0,7)$
and $(-7,0)$ is .....
A. $\sqrt{14}$
B. 49
C. $2 \sqrt{7}$
D. $7 \sqrt{2}$

Answer:

- Watch Video Solution

119. A circle is draw with origin as centre and passing through $(2,3)$, then its radius is ...
A. 2
B. 3
C. 13
D. $\sqrt{13}$

Answer:

D Watch Video Solution
120. The area of the triangle formed by ( $a, b+$
$c),(b, c+a)$ and $(c, a+b)$ is
A. $2(a+b+c)$
B. abc
C. 0
D. $a+b+c$

Answer:

## D Watch Video Solution

121. If points $(x, 0),(0, y)$ and $(1,1)$ are
collinear, then $\frac{1}{x}+\frac{1}{y}=\ldots \ldots$.
A. 1
B. -1
C. 0
D. 2

Answer:

D Watch Video Solution
122. The point which divides the line segment joining the points (7, -6 ) and (3,4) internally in the ratio 1:2 lies in the ......quadrant .
A. $Q_{1}$
B. $Q_{2}$
C. $Q_{3}$
D. $Q_{4}$

Answer:

## D Watch Video Solution

123. The points (a, 2a), (3a , 3a) and (3, 1) are
collinear, then $k=$
A. $-\frac{1}{4}$
B. $\frac{1}{3}$
C. $-\frac{2}{3}$
D. $-\frac{1}{3}$

Answer:

D Watch Video Solution
124. A circle drawn with origin as centre passes
through $\left(\frac{13}{2}, 0\right)$. The point which doesn't lie
in the interior of the circle is .......
A. $(-6,3)$
B. $\left(5, \frac{1}{2}\right)$
C. $\left(2, \frac{7}{3}\right)$
D. $\left(-\frac{3}{4}, 1\right)$

Answer:

- Watch Video Solution

125. The distance of the point $(-9,40)$ from
the origin is .....
A. 9
B. 40
C. 53
D. 41

Answer:

D Watch Video Solution
126. If $(-2,8)$ and $(6,-4)$ are the end points of
the diameter of a circle, then the centre of the circle is .....
A. $(3,6)$
B. $(4,2)$
C. $(2,2)$
D. $(-3,2)$

## Answer:

127. The angle between $X$-axis and $Y$-axis is
A. $0^{\circ}$
B. $180^{\circ}$
C. $360^{\circ}$
D. $90^{\circ}$

## Answer:

## D Watch Video Solution

128. The midpoint of the line joining of $(2,3)$
and $(-2,-3)$ is .....
A. $(0,0)$
B. $(2,3)$
C. $\left(1,1 \frac{1}{2}\right)$
D. $\left(-1,-1 \frac{1}{2}\right)$

Answer:

D Watch Video Solution
129. The slope of line join of $(5,-1),(0,8)$ is .....

> A. $\frac{7}{5}$
> B. $\frac{9}{5}$
C. $-\frac{9}{5}$
D. $-\frac{5}{9}$

Answer:

## - Watch Video Solution

130. Slope of $X$-axis is
A. 0
B. 1
C. '-1
D. not defined

Answer:

## D Watch Video Solution

131. The centroid of the triangle whose vertices
are $(2,-3),(4,6),(-2,8)$ is
A. $\left(\frac{8}{3}, \frac{17}{3}\right)$
B. $(4,11)$
C. $(-3,-8)$
D. $\left(\frac{4}{3}, \frac{11}{3}\right)$

Answer:

## D Watch Video Solution

132. Two vertices of a triangle are ( 3,5 ) and (-
$4,-5)$. If the centroid of the triangle is $(4,3)$,
A. $(13,9)$
B. $(-9,-13)$
C. $(9,13)$
D. $(13,-9)$

## Answer:

## D Watch Video Solution

133. The ratio in which the point $(4,8)$ divide the line segment joining the points $(8,6)$ and $(0,10)$ is
A. $2: 1$
B. 1:1
C. $1: 2$
D. $3: 1$

## Answer:

## D Watch Video Solution

134. If $(-2,-1),(a, 0),(4, b)$ and $(1,2)$ are the
vertices of a parallelogram then $a=\ldots$.
A. 3
B. -1
C. 4
D. 1

Answer:

## - Watch Video Solution

135. $(-2,8) \in \ldots . . . . .$.
A. $Q_{1}$
B. $Q_{4}$
C. $Q_{2}$
D. $Q_{3}$

Answer:

- Watch Video Solution

136. If $A, B, C$ are collinear then area of
$\Delta A B C=. . . .$.
A. 2
B. 1
C. 0
D. none

## Answer:

## - Watch Video Solution

137. Area of triangle formed by $(-4,0),(0,0)$
and $(0,5)$ is ......sq.units.
A. 12
B. 10
C. 13
D. 9

## Answer:

## - Watch Video Solution

138. The value of $p$ if the distance between ( 2 ,
$3)$ and ( $p, 3$ ) is 5 is ......
A. 7
B. 9
C. 12
D. 10

## Answer:

## - Watch Video Solution

139. The value of $k$ if the distance between ( 2 ,
$8)$ and $(2, k)$ is 3 is ......
A. 4.5
B. 10
C. 9
D. 5

## Answer:

## - Watch Video Solution

140. $A(0,-1), B(2,1)$ and $C(0,3)$ are the vertices of $\triangle A B C$ then median through B has a length .......units.
A. 9.5
B. 10
C. 2
D. 9

Answer:

## D Watch Video Solution

141. The closed figure formed by the points $(-2$,
$0),(2,0),(2,2),(0,4)$ and $(-2,-2)$ is a ......
A. pentagon
B. triangle
C. circle
D. none

Answer:

D Watch Video Solution
142. The co-ordinates of the mid points joining
$P\left(x_{1}, y_{1}\right)$ and $Q\left(x_{2}, y_{2}\right)$ is....
A. $\left(\frac{x_{1}+x_{2}}{2}, \frac{y_{1}+y_{2}}{2}\right)$
B. $\left(\frac{x_{1}-x_{2}}{2}, \frac{y_{1}+y_{2}}{2}\right)$
C. $\left(\frac{x_{1}+y_{1}}{2}, 1\right)$
D. none

Answer:

## - Watch Video Solution

143. What do you observe ? Justify the point that divides each median in the ratio $2: 1$ is the centriod of a traingle . $\left(A S_{3}\right)$
A. $3: 1$
B. 1:3
C. 1:2
D. 2:1

## Answer:

## - Watch Video Solution

144. If the distance between the points ( $3, k$ )
and $(4,1)$ is $\sqrt{10}$ then the value of $k=\ldots .$.
A. 8 or 10
B. 4 or -2
C. -1 or 2
D. none

Answer:

## D Watch Video Solution

145. If the points $(1,2),(-1, x)$ and $(2,3)$ are collinear then the value of $x$ is .....
A. 9
B. 7
C. 0
D. -1

Answer:

## D Watch Video Solution

146. If the centroid of the triangle formed with
$(a, b),(b, c)$ and $(c, a)$ is $O(0,0)$ then
$a^{3}+b^{3}+c^{3}=$
A. $a+b+c$
B. $\frac{a+b+c}{3}$
C. $\frac{a b c}{3}$
D. 3abc

Answer:

## D Watch Video Solution

147. The distance between two points $\mathrm{A}(\cos \theta$
$0), B(0, a \sin \theta)$ is ....
A. $\frac{a}{3}$
B. a
C. $a^{2}$
D. $\frac{a}{2}$

Answer:

## D Watch Video Solution

148. Distance of $(x, y)$ from $X$-axis is
A. $y$
B. $-x$
C. $-y$
D. none

## Answer:

## D Watch Video Solution

149. Distance of $(x, y)$ from $Y$-axis is .....
A. $-x$
B. $y$
C. $x$
D. none

## Answer:

## D Watch Video Solution

150. $(x, 0)$ is a point on ......
A. X -axis
B. $Y$-axis
C. origin

## D. none

## Answer:

## D Watch Video Solution

151. $(0, y)$ is a point on .....
A. $(0,0)$
B. $Y$-axis
C. X-axis
D. none

## Answer:

## D Watch Video Solution

152. Distance of $(x, y)$ from origin is

> A. $\sqrt{x}+\sqrt{y}$
> B. $\sqrt{x+y}$
> C. $\sqrt{x y}$
> D. $\sqrt{x^{2}+y^{2}}$

## - Watch Video Solution

153. If $a<0$ then $(-a,-a) \in \ldots . .$.
A. $Q_{2}$
B. $Q_{1}$
C. $Q_{4}$
D. $Q_{3}$

Answer:

# 154. Slope of the line $y=m x$ is ..... 

A. $y$
B. $x$
C. $m$
D. none

## Answer:

155. Slope of the line joining the points (2a, 3b)
and $(\mathrm{a},=\mathrm{b})$ is ......
A. $-\frac{a}{b}$
B. $\frac{b}{a}$
C. $\frac{b}{4} a$
D. $4 \frac{b}{a}$

Answer:

D Watch Video Solution
156. Slope of the line joining the points $A(-1.4$,

- 3.7) and $B(-2.4,1.3)$ is ....
A. -5
B. 5
C. 6
D. 7

Answer:

- Watch Video Solution

157. $(3,-5) \in$
A. $Q_{4}$
B. $Q_{3}$
C. $Q_{1}$
D. $Q_{2}$

Answer:

- Watch Video Solution

158. The angle between the lines $x=2$ and $y=3$
is
A. $60^{\circ}$
B. $70^{\circ}$
C. $90^{\circ}$
D. $80^{\circ}$

Answer:
(D) Watch Video Solution
159. Slope of vertical line is
A. 0
B. -1
C. 3
D. not defined

Answer:
( Watch Video Solution
160. Area of triangle formed with $(-5,-1),(3,-5)$ and $(5,2)$ is ......sq.units.
A. 28
B. 20
C. 32
D. 16

Answer:

D Watch Video Solution
161. If the points $(k, k),(2,3)$ and $(4,-1)$ are collinear then $\mathrm{k}=. . . . . .$.

$$
\begin{aligned}
& \text { A. }-\frac{1}{7} \\
& \text { B. } \frac{1}{2} \\
& \text { C. } \frac{3}{7} \\
& \text { D. } \frac{7}{3}
\end{aligned}
$$

Answer:

D Watch Video Solution
162. $A(2,0), \mathrm{B}(1,2), \mathrm{C}(-1,6)^{\prime}$ లు శీర్షాలుగా గల త్రిభుజ వైశాల్యం
A. 10
B. 12
C. 0
D. 9

Answer:
( Watch Video Solution
163. Identify collinear points .
A. $(1,-6)(3,-4),(4,-3)$
B. $(1,-1)(2,3),(2,0)$
C. $(5,2),(3,-5),(-5,-1)$
D. all

Answer:
( Watch Video Solution
164. The area of square formed with the
vertices $(0,-1),(2,1),(0,3)$ and $(-2,1)$ taken in order as vertices is .....sq.units.
A. 12
B. 6
C. 8
D. none

Answer:

D Watch Video Solution
165. The co-ordinates of centroid of the
triangle formed with the vertices $(-1,3),(6,-3)$
and (-3,6) is.....
A. $\left(1, \frac{1}{2}\right)$
B. $\left(\frac{2}{3}, 2\right)$
C. $\left(8,-\frac{1}{2}\right)$
D. $(0,3)$

Answer:

D Watch Video Solution
166. $A(1,-1), B(0,6)$ and $C(-3,0)$ then $G=\ldots .$.

$$
\begin{aligned}
& \text { А. }\left(\frac{8}{9}, \frac{1}{7}\right) \\
& \text { В. }\left(\frac{6}{7}, \frac{1}{3}\right) \\
& \text { С. }\left(\frac{1}{2}, \frac{1}{3}\right) \\
& \text { D. }\left(-\frac{2}{3}, \frac{5}{3}\right)
\end{aligned}
$$

Answer:

## D Watch Video Solution

167. The point of concurrence of medians of a triangle is called.....
A. centroid
B. orthocentre
C. centre
D. none

Answer:

D Watch Video Solution
168. Mid point of the line joining the points (1,

1) and $(0,0)$ is .....
A. $(0,9)$
B. $(3,7)$
C. $\left(\frac{1}{2}, \frac{1}{2}\right)$
D. $\left(1, \frac{1}{2}\right)$

Answer:

D Watch Video Solution
169. The radius of the circle whose centre is (3,
2) and passes through $(-5,6)$ is .......units.

A. $2 \sqrt{5}$<br>B. $4 \sqrt{7}$<br>C. $4 \sqrt{3}$<br>D. $4 \sqrt{5}$

Answer:

D Watch Video Solution
170. Area of parallelogram = ......sq.units.
A. $\frac{1}{2} b h$
B. bh
C. $b^{2} h^{2}$
D. none

Answer:
(D) Watch Video Solution
171. $A(4,5), B(7,6)$ then $A B=\ldots . . .$. units.
A. $\sqrt{10}$
B. 10
C. 8
D. $\sqrt{19}$

Answer:

D Watch Video Solution
172. In quadrilateral $A B C D$,
$\mathrm{AB}=\mathrm{BC}=\mathrm{CD}=\mathrm{AD}$ and $A C \neq B D$ then it is a

# A. trapezium 

B. square

C. parallelogram
D. none

Answer:

D Watch Video Solution
173. $A(a, b)$ and $B(-a,-b)$ then $B A=\ldots . . .$. units.
A. $2 \sqrt{a}$
B. $2 \sqrt{a^{2}+b^{2}}$
C. $2 \sqrt{b}$
D. $2 \sqrt{a^{2}+b}$

## Answer:

## D Watch Video Solution

174. If $\theta$ is the angle made by a line with $x$-axis
then slope $m=. . . .$.
A. $\tan \theta$

## B. $\sec \theta$

## C. $\cos e c \theta$

D. $n o \neq \theta$

## Answer:

## - Watch Video Solution

175. $A(4,0), B(8,0)$ then $A B=\ldots . .$. units.
A. 6
B. 10
C. 4
D. 12

## Answer:

## D Watch Video Solution

176. Other name for $x$-coordinate of a point is
A. abscissa
B. point

## C. ordinate

D. none

## Answer:

## D Watch Video Solution

177. $(8,10) \in$.....
A. $Q_{2}$
B. $Q_{1}$
C. $Q_{3}$

## D. none

## Answer:

## D Watch Video Solution

178. Slope of horizontal line is ......
A. 3
B. -1
C. 0
D. none

## Answer:

## D Watch Video Solution

179. $a x+b y+c=0$ represents a ..........
A. straight line
B. circle
C. curve
D. none

$$
\begin{aligned}
& \text { A. } \frac{a-b-c}{2} \\
& \text { B. } \frac{a+b-c}{2} \\
& \text { C. } \frac{a b}{2}+c \\
& \text { D. } \frac{a+b+c}{2}
\end{aligned}
$$

## Answer:

# 181. Coordinates of origin are ........ 

A. $(a, b)$
B. $(3,7)$
C. $(0,0)$
D. none

## Answer:

182. $A(4,3), B(8,6)$ then $A B=$......units.
A. 9
B. 5
C. 16
D. 12

Answer:
183. $Q_{1} \cap Q_{2}=\ldots$...
A. $\phi$
B. $\{0\}$
C. $\{8,4\}$
D. none

Answer:

D Watch Video Solution
184. The slope of the line $\frac{x}{a}+\frac{y}{b}=1$
A. $-\frac{b}{a}$
B. $\frac{b}{a}$
C. $\frac{a}{b}$
D. none

Answer:
185. The midpoint of the line joining the points
$(1,2)$ and $(1, p)$ is $(1,-1)$ then $p=\ldots \ldots$.
A. -31
B. -3
C. -4
D. none

Answer:

D Watch Video Solution
186. The centroid of the triangle formed with the line $x+y=6$ with the coordinate axes is
A. $(4,0)$
B. $(1,3)$
C. $(8,1)$
D. $(2,2)$

Answer:

D Watch Video Solution

# 187. Slope of the line joining the points $(2,5)$ 

and $(k, 3)$ is 2 then $k=. . . . . .$.
A. 4
B.
C. -1
D. none

Answer:

D Watch Video Solution
188. A point on X - axis is
A. $(9,0)$
B. $(0,3)$
C. $(9,3)$
D. $(3,-1)$

Answer:

D Watch Video Solution
189. The slope of a line passing through (-2,
$3)$ and $(4, a)$ is $\frac{-5}{3}$ then $a=\ldots \ldots$.
A. 1
B. 7
C. -7
D. 2

Answer:

D Watch Video Solution
190. If $(1, x)$ is at $\sqrt{10}$ units from origin then the value of $x=$.....
A. $\pm 31$
B. $\pm 3$
C. $\pm 2$
D. $\pm 2$

Answer:

- Watch Video Solution

191. $A=\left(\frac{1}{2}, \frac{3}{2}\right), B\left(\frac{3}{2}, \frac{-1}{2}\right)$ then $\mathrm{BA}=\ldots .$.
A. $\sqrt{5}$
B. $\sqrt{6}$
C. $\sqrt{19}$
D. none

Answer:

D Watch Video Solution

## 192. $X$ and $Y$ axes will intersect at .....

A. $(1,1)$
B. $(2,2)$
C. $(0,0)$
D. $(8,5)$

## Answer:

193. In $\triangle A B C, \mathrm{AB}=\mathrm{AC}=\mathrm{BC}$ then it is triangle .
A. scalene
B. equilateral
C. isosceles
D. none

Answer:

D Watch Video Solution
194. Y axis can be represented by ......

$$
\begin{aligned}
& \text { A. } x=0 \\
& \text { B. } y=0 \\
& \text { C. } y=-\frac{1}{2} \\
& \text { D. all }
\end{aligned}
$$

Answer:

## - Watch Video Solution

195. $y$ intercept of the line $x-2 y+1=0$ is
A. $-\frac{1}{2}$
B. 1
C. -1
D. $\frac{1}{2}$

Answer:

## - Watch Video Solution

196. equation of $X$ - axis is
A. $x=0$
B. $x=7$
C. $x=1$
D. $y=0$

## Answer:

## D Watch Video Solution

197. If $(p, 2 p),(2 p, 3 p)$ and $(3,1)$ are collinear
then $\mathrm{p}=. . . . . .$.

$$
\text { A. } \frac{1}{3}
$$

B. -1
C. $-\frac{1}{3}$
D. none

## Answer:

## D Watch Video Solution

198. In $\triangle A B C$, all the sides are diferent then
it is called ......triangle .
A. isosceles
B. scalene
C. equilateral
D. none

## Answer:

## D Watch Video Solution

199. In $\triangle P Q R, P Q=Q R$ then it is called .......triangle .
A. isosceles

## B. right triangle

C. equilateral
D. none

## Answer:

## D Watch Video Solution

200.A $(1,-1), B\left(2^{1 / 2}, 0\right), C(4,1)$ then area of $\Delta A B C=. . . . . . . . s q$. units.
A. 2
B. 9
C. 0
D. none

## Answer:

- Watch Video Solution

201. The point of concurrence of attitudes of a
triangle is called its........
A. orthocentre
B. centroid
C. isosceles
D. none

## Answer:

## D Watch Video Solution

202. Angle made by the line $y=x$ with the positive direction of $X$-axis is
A. $45^{\circ}$
B. $60^{\circ}$
C. $90^{\circ}$
D. $70^{\circ}$

## Answer:

- Watch Video Solution

203. Number of medians of triangle is
A. 5
B. 4
C. 7
D. 3

## Answer:

## D Watch Video Solution

204. Slope of line $y=7$ is ......
A. 1
B. 7
C. 0

## D. none

## Answer:

## D Watch Video Solution

205. If $A(p, q), B(m, n)$ and $C(p-m, q-n)$
are collinear then $\mathrm{pn}=\ldots . .$.
A. $q^{2} m$
B. $q \mathrm{~m}$
C. $\frac{q}{m}$

## D. none

## Answer:

## D Watch Video Solution

## 206. If $4 x+y=1$ and $3 x-2 y=9$ In the problem

$$
y=\ldots . . .
$$

A. 3
B. 7
C. -3
D. 8

## Answer:

## D Watch Video Solution

## 207. Area of trapezium = ...... Sq.units.

A. ph
B. $h(a+b)$
C. $\frac{1}{2} h(a+b)$
D. $\frac{1}{2}(a+b)$

## Answer:

## D Watch Video Solution

208. $\mathrm{P}(\cos \theta,-\cos \theta), \mathrm{Q}(\sin \theta, \sin \theta)$ then $\mathrm{PQ}=$
A. $\cos \theta$
B. $\sin ^{2} \theta$
C. 0
D. none

## Answer:

## - Watch Video Solution

209. $A(t, 2 t), B(-2,6), C(3,1)$ and $\Delta A B C=5$
sq.units then $t=. . . . . .$.
A. 9
B. 4
C. -9
D. 2

## Answer:

## D Watch Video Solution

210. The diagonals of a parallelogram whose
vertices are $(2,3),(4,5),(4,9)$ and $(2,7)$
will intersect at ......
A. $(0,0)$
B. $(5,6)$
C. $(0,9)$
D. $(3,6)$

## Answer:

## D Watch Video Solution

211. Slope of the line $3 x-2=0$ is
A. 2
B. 3
C. 0
D. not defined
212. Each angle of an equilateral triangle is.
A. $100^{\circ}$
B. $70^{\circ}$
C. $60^{\circ}$
D. $90^{\circ}$

Answer:
213. $\mathrm{A}(\cot \theta 1),, \mathrm{B}(0,0)$ then $\mathrm{BA}=\ldots . .$.
A. 5
B. 4
C. 1
D. none

Answer:
214. Slope of the line joining the points $A(0,0)$
, $\mathrm{B}\left(\frac{1}{2}, \frac{1}{2}\right)$ is .........
A. 4
B. 1
C. 3
D. 7

Answer:

- Watch Video Solution

215. $(3,0),(8,0),\left(\frac{1}{2}, 0\right) \ldots . .$. Points lie on ......
A. X-axis
B. $Y$-axis
C. $(0,0)$
D. none

Answer:

- Watch Video Solution

216. $(\mathrm{x}, \mathrm{y}) \in Q_{4}$ then
A. $x=0, y=0$
B. xlt0,ygt0
C. $x g t 0, y g t 0$
D. none

Answer:

## D Watch Video Solution

217. $y$ intercept of the line $y=m x+c$ is
A. $y$
B. $m$
C. 1
D. none

## Answer:

## - Watch Video Solution

# 218. The midpoint of line segment divides it in 

ratio
A. $1: 1$
B. 2:1
C. 1:2
D. 1: 4

## Answer:

- Watch Video Solution

219. Diagonals in a parallelgram
A. equal
B. trisect
C. bisect
D. none

## Answer:

## - Watch Video Solution

220. The line joining the mid point of one side of a triangle from opposite vertex in called
A. ortho centre
B. median

## C. centroid

D. none

## Answer:

## D Watch Video Solution

## 221. $x$ intercept of the line $x-y+1=0$ is ......

A. 1
B. 2
C. 7
D. -1

## Answer:

## D Watch Video Solution

222. In rhombus all sides are
A. equal
B. not equal
C. 3 cm
D. 8 cm

## Answer:

## D Watch Video Solution

223. If the point (4, -p) lie on $Y$ - axis then $p^{2}+2 p-1=\ldots . .$.
A. 0
B. 1
C. -1
D. 4

## Answer:

## D Watch Video Solution

224. If the point $(a, 5)$ lies on $Y$-axis, the value of $a=$.....

## A. agt0

B. alt0
C. $a=0$
D. none

## Answer:

## - Watch Video Solution

225. If the distance between the points
$\left(x_{1}, y_{1}\right)$ and $\left(x_{2}, y_{2}\right)$ is $\left|x_{1}-x_{2}\right|$ then they
are parallel to .....
A. X-axis
B. $X Y$-axis
C. $X Y$-axis
D. $Y$-axis

## Answer:

## D Watch Video Solution

226. Show that the points $(-2,-1),(1,0),(4,3)$ and
$(1,2)$ are vertices of a parallelogram.

## D Watch Video Solution

227. Find the ratio in which the line segment
joining the points ( $-1,12$ ) and ( $8,-6$ ) is divided by
(1,8).
228. Find the area of the quadrilateral whose
vertices taken inorder are $(-4,-2),(-3,-5),($ $3,-2)$ and $(2,3)\left(A S_{1}\right)$

## - Watch Video Solution

229. If $A(3,4), B(6,5)$ and $C(8,8)$ are the three vertices of a parallelogram ABCD. Find the coordinates of the fourth vertex D .

## 230. $P(2,2), Q(-4,4)$ and $R(5,-8)$ are the

 vertices of a $\triangle P Q R$, then median from ' R ' isA. $\sqrt{147}$
B. $\sqrt{157}$
C. $4 \sqrt{17}$
D. $2 \sqrt{13}$

## - Watch Video Solution

231. The distance of a point $(\alpha, \beta)$ from the origin is ....
A. $\alpha+\beta$
B. $\alpha^{2}+\beta^{2}$
C. $\sqrt{\alpha^{2}+\beta^{2}}$
D. $\sqrt{\alpha^{2}-\beta^{2}}$

Answer:

D Watch Video Solution
232. The coordinates of the point which divides the line joining $\left(x_{1}, y_{1}\right)$ and $\left(x_{2}, y_{2}\right)$
A. $\left(\frac{m x_{2}+n x_{1}}{m+n}, \frac{m y_{2}+n y_{1}}{m+n}\right)$
B. $\left(0, \frac{m}{n}\right)$
c. $\left(\frac{m x_{2}}{m+n}, \frac{n y_{1}}{m+n}\right)$
D. $\left(\frac{m x_{2}+n x_{1}}{m-n}, \frac{m y_{2}+n y_{1}}{m-n}\right)$

## Answer:

233. Coordinate geometry was introduced by
A. Rene Descartes
B. John Ven
C. Cayley
D. none

Answer:
234. Heron's formula to calculate area of triangle is .....

$$
\begin{aligned}
& \text { A. } \sqrt{S(S-a)(S-b)} \\
& \text { B. } \sqrt{S(S-a)(S-b)(S-c)} \\
& \text { C. } \sqrt{S(S-a)(S-b)(S+c)} \\
& \text { D. none }
\end{aligned}
$$

Answer:
235. If $A C=A B+B C$ then the points $A, B, C$ are
A. non collinear
B. collinear
C. can't be determined
D. none

## Answer:

D Watch Video Solution
236. In the below figure $G$ is the centroid then

AG:GD=....

A. $1: 4$
B. 2:3
C. $1: 1$
D. $2: 1$

## Answer:

## D Watch Video Solution

237. The area of below triangle is....sq.units.

A. 3
B. 8
C. 4
D. 6

## Answer:

## D Watch Video Solution

## 238. In the below figure $x=$......


A. 1
B. -7
C. 3
D. -9

## Answer:

## - Watch Video Solution

239. The area of below parallelogram is....
$\triangle A B C=5$ sq.units.

A. 4
B. 3
C. 10
D. 9

Answer:

D Watch Video Solution
240. $A O B C$ is a rectangle whose three vertices
are $A(4,0), B(0,3)$ and $O(0,0)$, then its
diagonal is .....
A. 4
B. 3
C. 5
D. 7

Answer:

## D Watch Video Solution

241. The perimetre of a triangle whose vertices
are $A(12,0), O(0,0)$ and $B(0,5)$ is
A. 13
B. 30
C. 34
D. 60

Answer:

- Watch Video Solution

242. The distance of a point $(0,3)$ from the origin.
243. The distance between $(0,3)$ from $(0,0)$

## - Watch Video Solution

## 244. Find the distance between $(4,5)(5,6)$

- Watch Video Solution

245. $y$ intercept 4 the line $y=m x+c$ is

## 246. In rhombus all sides are .........

- Watch Video Solution

