



INDIAN SCHOOL NIZWA - WORKSHEET

MATHEMATICS

Ch:3 Co-ordinate Geometry

&

Ch:4 Linear Equations in two variables

Name:

Date:

Class: IX Sec:

- Write the coordinates of a point which:-
 - Lies on the x-axis and is at a distance of 4 units to the right of the origin.
 - Lies on the y-axis and is at a distance of y units below the x-axis.
 - Is at a distance of 3 units from the x-axis and 7 units from the y-axis.
[there would be four such points].
- Write the equations of X-axis and Y- axis.
- Draw the graph of the equation : $3x - 2y = 7$.
- Draw the graph of the following
 - $x = -3$
 - $y = 4$
 - $2x + 5 = 0$
- Find the point where the line $5y - 3x - 10 = 0$ cuts the y-axis.
- Draw the graph of the line $3x + 4y = 18$. Using the graph find value of y when $x = 2$.
(show this point on the graph).
- Plot $(1,1)$, $(2,4)$, $(8,4)$ and $(10,1)$ in a Cartesian plane . Write the name of the figure so obtained ?
- Draw the graph of $y = 2x + 4$. Using the graph find the area between the line and the axes.
- Give geometric representation of equation $3x + 12 = 0$ in :
 - One variable
 - Two variables
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- The auto-rikshaw fare in a city is charged as ₹ 10 for the first km and at Rs 4 per km for subsequent distance covered. Write a linear equation to express the above statement. Draw the graph of linear equation.



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11. Plot $A(0,3)$, $B(-4,0)$, $C(2,0)$ on the graph paper. Identify the shape of the figure obtained and find its area.
12. Draw the graph of equations $2x + 3y = -5$ and $x + y = -1$ in the same graph.
13. In which quadrant does a point both of whose coordinates are negative lie?
14. Draw a quadrilateral with vertices $(-4,4)$, $(-6,0)$, $(-4,-4)$, $(-2,0)$. Name the type of quadrilateral and find its area.
15. Write the equations of a line parallel to x-axis which is at a distance of
 - a) 3 units above the axis.
 - b) -5 units below the axis.
16. Find the point which lies on the line $y = -3x$ having abscissa 3.