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Concept_Grade-9_ Two Variable Linear Equation

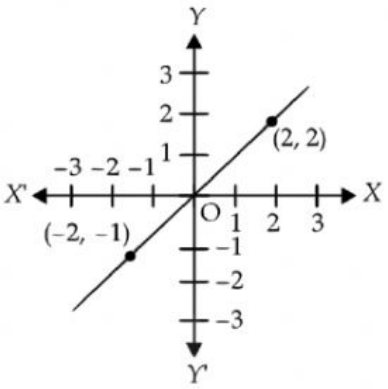
Graphical Methods

1. If the graph of 2x + ky = 5 passes through the point (-2, 1), find k.

2. The graph of the equation x + a = 0 is a line parallel to Y-axis and to the left of the Y-axis if _____.

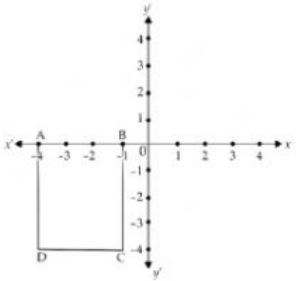
3. The graph of the linear equation 4x-3y = 12 cuts Y-axis at _____

4. To which linear equation does the graph represent?



5. Write the equation $\frac{x}{2}+\frac{3y}{5}$ = -1 in standard form and draw the graph.

6. ABCD is a rectangle. Write the equation of its sides. Also, find its area.



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7. Draw the graphs of $y = x + 1$ and $x + y = 5$ on the same Cartesian plane. Shade the triangle formed by these graphs and Y-axis and also find its area.

8. Write $3x+2y= 18$, in the form of $y = mx + c$. Draw its graph.

9. Write the equation $4x = 6(1 - y) + 3x$ in the form $ax + by = c$ and also find the co-ordinate of the points where its graph cuts the two axes ?