



The No. 1 CBSE Math Website In The World

In The Service of Student Community

MM 20

Linear Equations in two variables

Time 40 Minutes

Section A 1 Marks Each

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- One of the solutions of the linear equation  $5x - 4y + 5 = 0$  is  
(A)  $(-1, 0)$  (B)  $(0, 5)$  (C)  $(3, 4)$  (D)  $(-2, -3)$
- A linear equation in two variables has  
(A) No solution (B) Only one solution  
(C) Only two solutions (D) Infinitely many solutions
- An equation of the form  $ax + by + c = 0$ , where  $a, b, c$  are real numbers and  $x, y$  are variables is called a linear equation in two variables if  
(A)  $a \neq 0$  (B)  $b \neq 0$  (C)  $a \neq 0$  and  $b \neq 0$  (D)  $a \neq 0$  or  $b \neq 0$
- The area bounded by the line  $x + y = 5$  and  $x$ -axis and  $y$ -axis is \_\_\_\_\_ sq. units.  
(A)  $\frac{25}{2}$  (B)  $\frac{25}{4}$  (C)  $\frac{25}{8}$  (D) 25
- Any point on the  $y$ -axis is of the form  
(A)  $(x, 0)$  (B)  $(x, y)$  (C)  $(0, y)$  (D)  $(y, y)$

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**Linear Equations in two variables**

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**Section B 2 Marks Each**

6. Write general equation of a line parallel to x-axis.
7. Find the coordinates of the point where the line  $3x - 2y + 10 = 0$  cuts y-axis

**Section B 3 Marks Each**

8. Find the equation of line passing through points A (3, 4) and B (10,12)

**Section D 4 Marks Each**

9. A pharmacist needs to strengthen a 15% alcoholic solution to one of 32% alcohol. How much pure alcohol should be added to x ml of 15% solution. Represent graphically. [Take quantity of pure alcohol as y ml]
10. The work done by a body on application of a constant force is directly proportional to the distance travelled by the body. Express this in the forms of an equation in two variables and draw the graph of the same by taking the constant as 3 units. Read from the graph the work done when the distance travelled by the body is (A) 3 units (B) 5 units.

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