

NCERT MATHS SOLUTIONS

Class - 9 || LINEAR EQUATIONS IN TWO VARIABLES

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Ques No.	Question
	NCERT - CLASS 9 - CHAPTER 4 LINEAR EQUATIONS IN TWO VARIABLES - EXERCISE 4.1 - Q 1
1	The cost of a notebook is twice the cost of a pen. Write a linear equation in two variables to represent this statement. (Take the cost of a notebook to be Rs x and that of a pen to be Rs y).
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	NCERT - CLASS 9 - CHAPTER 4 LINEAR EQUATIONS IN TWO VARIABLES - EXERCISE 4.1 - Q 2
2	Express the following linear equations in the form $ax + by + c = 0$ and indicate the values of a, b and c in each case: (i) $2x + 3y = 9$. $3\overline{5}$ (ii) $x - \frac{y}{5} - 10 = 0$ (iii) $-2x + 3y = 6$ (iv) $x = 3y$ (v) $2x = -5y$ (vi) $3x + 2 = 0$ (vii) $y - 2 = 0$
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	NCERT - CLASS 9 - CHAPTER 4 LINEAR EQUATIONS IN TWO VARIABLES - EXERCISE 4.2 - Q 1
3	Winch one of the following options is true, and why? $y=3x+5$ has (i) a unique solution, (ii) only two solutions, (iii) infinitely many solutions
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	NCERT - CLASS 9 - CHAPTER 4 LINEAR EQUATIONS IN TWO VARIABLES - EXERCISE 4.2 - Q 2



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6	NCERT - CLASS 9 - CHAPTER 4 LINEAR EQUATIONS IN TWO VARIABLES - EXERCISE 4.2 - Q 4 Find the value of k, if $x = 2, y = 1$ is a solution of the equations $2x + 3y = k$. • Watch Free Video Solution on Doubtnut
7	NCERT - CLASS 9 - CHAPTER 4 LINEAR EQUATIONS IN TWO VARIABLES - EXERCISE 4.3 - Q 1 Draw the graph of each of the following linear equations in two variables: (i) $x + y = 4$ (ii) $x - y = 2$ (iii) $y = 3x$ (iv) $3 = 2x + y$ • Watch Free Video Solution on Doubtnut

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      8
      Give the equations of two lines passing through (2, 14). How many more such lines are there, and why?

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9	If the point (3, 4) lies on the graph of the equation $3y = ax + 7$, find the value of a. Solution on Doubtnut
10	 NCERT - CLASS 9 - CHAPTER 4 LINEAR EQUATIONS IN TWO VARIABLES - EXERCISE 4.3 - Q 4 The taxi fare in a city is as follows: For the first kilometre, the fare is Rs 8 and for the subsequent distance it is Rs 5 per km. Taking the distance covered as x km and total fare as Rs y, write a linear equation for this information, and draw its graph. Watch Free Video Solution on Doubtnut
11	NCERT - CLASS 9 - CHAPTER 4 LINEAR EQUATIONS IN TWO VARIABLES - EXERCISE 4.3 - Q 5 From the choices given below, choose the equation whose graphs are given in Fig. 4.6 and Fig. 4.7. For Fig.4.6 (i) $y = x$ (ii) $x + y = 0$ (iii) $y = 2x$ (iv) $2 + 3y = 7x$ For Fig.4.7. (i) $y = x + 2$ (ii) $y = x - 2$ (iii) $y = -x + 2$ (iv) `x+2 • Watch Free Video Solution on Doubtnut
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	NCERT - CLASS 9 - CHAPTER 4 LINEAR EQUATIONS IN TWO VARIABLES - EXERCISE 4.3 - Q 6

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the distance travelled by the body, express this in the form of an equation in two variables and draw the graph of the same by taking the constant force as 5 units. Also read from the graph the work done when the distance travelled by the body is (i) 2 units (ii) 0 unit

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NCERT - CLASS 9 - CHAPTER 4 LINEAR EQUATIONS IN TWO VARIABLES - EXERCISE 4.3 - Q 7

Yamini and Fatima, two students of Class IX of a school, together contributed Rs 100 towards the Prime Minister's Relief Fund to help the earthquake victims. Write a linear equation which satisfies this data. (You may take their contributions as Rs x and Rs y.) Draw the graph of the same.

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14	NCERT - CLASS 9 - CHAPTER 4 LINEAR EQUATIONS IN TWO VARIABLES - EXERCISE 4.3 - Q 8 In countries like USA and Canada, temperature is measured in Fahrenheit, whereas in countries like India, it is measured in Celsius. Here is a linear equation that converts Fahrenheit to Celsius: $F = \left(\frac{9}{5}\right)C + 32$ (i) Draw the graph of the linear eq Watch Free Video Solution on Doubtnut
15	NCERT - CLASS 9 - CHAPTER 4 LINEAR EQUATIONS IN TWO VARIABLES - EXERCISE 4.4 - Q 1 Give the geometric representations of $y = 3$ as an equation (i) in one variable (ii) in two variables (i) Watch Free Video Solution on Doubtnut
16	NCERT - CLASS 9 - CHAPTER 4 LINEAR EQUATIONS IN TWO VARIABLES - EXERCISE 4.4 - Q 2 Give the geometric representations of $2x + 9 = 0$ as an equation (i) in one variable (ii) in two variables (iii) Watch Free Video Solution on Doubtnut
17	NCERT - CLASS 9 - CHAPTER 4 LINEAR EQUATIONS IN TWO VARIABLES - SOLVED EXAMPLES - Q 1 Write each of the following equations in the form $ax + by + c = 0$ and indicate the values of a, b and c in each case: (i) $2x + 3y = 4$. 37 (ii) $x - 4 = \sqrt{3}y$ (iii) $4 = 5x - 3y$ (iv) $2x = y$ Watch Free Video Solution on Doubtnut
	0. If the line segment joining the point A(a,b)andB(c,d) subtends an ac-bit ac-bit ac-bit bit ac-bit bit ac-bit bit ac-bit bit bit bit bit bit bit bit bit bit





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Find the equation of tangent to `y=int_(x^2)^(x^3)(...



	NCERT - CLASS 9 - CHAPTER 4 LINEAR EQUATIONS IN TWO VARIABLES - SOLVED EXAMPLES - Q 2
18	Write each of the following as an equation in two variables: (i) $x=-5$ (ii) $y=2$ (iii) $2x=3$ (iv) $5y=2$
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	NCERT - CLASS 9 - CHAPTER 4 LINEAR EQUATIONS IN TWO VARIABLES - SOLVED EXAMPLES - Q 3
19	Find four different solutions of the equation $x+2y=6$.
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	NCERT - CLASS 9 - CHAPTER 4 LINEAR EQUATIONS IN TWO VARIABLES - SOLVED EXAMPLES - Q 4
20	Find two solutions for each of the following equations: (i) $4x + 3y = 12$ (ii) $2x + 5y = 0$ (iii) $3y + 4 = 0$
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	NCERT - CLASS 9 - CHAPTER 4 LINEAR EQUATIONS IN TWO VARIABLES - SOLVED EXAMPLES - Q 5
21	Given the point (1, 2), find the equation of a line on which it lies. How many such equations are there?
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	NCERT - CLASS 9 - CHAPTER 4 LINEAR EQUATIONS IN TWO VARIABLES - SOLVED EXAMPLES - Q 6
22	Draw the graph of ${ m x}+{ m y}=7$.



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24	NCERT - CLASS 9 - CHAPTER 4 LINEAR EQUATIONS IN TWO VARIABLES - SOLVED EXAMPLES - Q 8 For each of the graphs given in Fig. 4.5 select the equation whose graph it is from the choices given below: (a) For Fig 4.5(i) (i) $x + y = 0$ (ii) $y = 2x$ (iii) $y = x$ (iv) $y = 2x + 1$ (b) For fig 4,5(ii) (i) $x + y = 0$ (i
25	NCERT - CLASS 9 - CHAPTER 4 LINEAR EQUATIONS IN TWO VARIABLES - SOLVED EXAMPLES - Q 9 Solve the equation $2x + 1 = x - 3$ and represent the solution(s)on (i) the number line (ii) the Cartesian plane. (iii) Watch Free Video Solution on Doubtnut
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