



Laying the foundation of lifelong success

CHAPTER 3

Pair Of Linear Equations In Two Variables

(Previous Years' Questions)

5 – Markers

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1. Draw the graph of the pair of linear equations $x - y + 2 = 0$ and $4x - y - 4 = 0$. Calculate the area of the triangle formed by the lines so drawn and the x -axis.
(2026)
 2. Aarush bought 2 pencils and 3 chocolates for ₹ 11 and Tanish bought 1 pencil and 2 chocolates for ₹ 7 from the same shop. Represent this situation in the form of a pair of linear equations. Find the price of 1 pencil and 1 chocolate, graphically.
(2026)
 3. (a) Solve the following system of equations graphically:
$$x - 2y = 3, 3x - 8y = 7$$

OR

(b) Five years ago, Adil was thrice as old as Bharat. Ten years later Adil shall be twice as old as Bharat. To know the present ages of Adil and Bharat:

 - (i) Form the linear equations representing the above information.
 - (ii) Show that the system of equations is consistent with unique solution.
 - (iii) Find the present ages of Adil and Bharat. (2026)
 4. Vijay invested certain amounts of money in two schemes A and B, which offer interest at the rate of

8% per annum and 9% per annum, respectively. He received ₹ 1,860 as the total annual interest.

However, had he interchanged the amounts of investments in the two schemes, he would have received ₹ 20 more as annual interest. How much money did he invest in each scheme ? **(2025)**

5. The perimeter of an isosceles triangle is 32 cm. If each equal side is $\frac{5}{6}$ th of the base, find the area of the triangle. **(2025)**

6. A man lent a part of his money at 10% p.a. and the rest at 15% p.a. His income at the end of the year is ₹ 1,900. If he had interchanged the rate of interest on the two sums, he would have earned ₹ 200 more. Find the amount lent in both cases. **(2025)**

7. The students of a class are made to stand equally in rows. If 3 students are extra in each row, there would be 1 row less. If 3 students are less in a row, there would be 2 more rows. Find the number of students in the class. **(2025)**

8. (a) Using graphical method, solve the following system of equations :

$$3x + y + 4 = 0 \text{ and } 3x - y + 2 = 0$$

OR

- (b) Tara scored 40 marks in a test, getting 3 marks for each right answer and losing 1 mark for each wrong answer. Had 4 marks been awarded for each correct answer and 2 marks been deducted for each wrong answer, then Tara would have scored 50 marks. Assuming that Tara attempted all questions, find the total number of questions in the test. **(2024)**
9. If the length of a rectangle is reduced by 5 cm and its breadth is increased by 2 cm, then the area of the rectangle is reduced by 80 cm^2 . However, if we increase the length by 10 cm and decrease the breadth by 5 cm, its area is increased by 50 cm^2 . Find the length and breadth of the rectangle. **(2024)**

10. (a) Using graphical method, solve the following system of equations:

$$3x - 2y = 10 \text{ and } 5x + 3y = 4$$

OR

- (b) If three times the greater of two numbers is divided by the smaller one, we get 4 as the quotient and 3 as the remainder. Also, if seven

times the smaller number is divided by greater one, we get 5 as the quotient and 1 as the remainder. Find the numbers. **(2024)**



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