

UNIQUE STUDY POINT

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1 SHORT ANSWER TYPE QUESTIONS Q1. Solve the following pair of linear equations: a) ax + by = a - bbx - ay = a + b(a + 2b) x + (2a - b) y = 2b) (a-2b) x + (2a+b) y = 3 $(a - b) x + (a + b) y = a^2 - 2ab - b^2$ $(a + b) (x+y) = a^2 + b^2$ c) ax/b - by/a = a + bax - by = 2abd) 10/(x+1) + 2/(y-1) = 5/25/(x+1) - 2/(y-1) = 1/2e) $a^{2}b/x + b^{2}a/y = a + b$, x, y $\neq 0$ $\{(x+y) \neq 0, (y-x) \neq 0\}$ $a^2/x - b^2/y = 0$ f) $mx - ny = m^2 + n^2$ x - y = 2ng) xy/(x+y) = 6/5xy/(y-x)=6h) $x/a^{2} - y/b^{2} = 0$ $b^{2}x - a^{2}y = 2a^{2}b^{2}$ x/a - y/b = (a - b)i) $b^2x/a - a^2y/b = ab(a+b)$ j) 2 If 1 is added to each of the given two numbers, then then ratio is 1:2. If 5 is subtracted from each of the numbers, then their ratio is 5:11. Find the numbers. 3 The ratio of the incomes of two persons is 9:7 and the ratio of their expenditures is 4:3. If each of them S aves Rs.200 per month, find their monthly incomes. 4 Seven times a 2- digit number is equal to four times the number obtained by reversing the order of the digits. If the sum of both the digits is 9, find the number. 5 A father's age is three times the sum of the ages of his two children. After 5 years, his age will be two times the sum of their ages. Find the present age of the father. (CBSE 2019) 6 The students of a class are made to stand in rows. If 3 students are extra in a row, there would be 1 row less. If 3 students are less in a row, there would be 2 rows more. Find the number of students in the class.

