Pair of Linear Equations in two Variables: Worksheet -7

- 1. If (a + b, a b) is the solution of the equations 3x + 2y = 20 and 4x 3x + 2y = 205y = 42, then find the value of b. bl -2
- 2. In a fraction, if numerator is increased by 2 and denominator is increased by 3, it becomes $\frac{3}{4}$ and if numerator is decreased by 3 and denominator is decreased by 6, it becomes $\frac{4}{3}$. Find the sum of the numerator and denominator. cl 20 dl 14 a] 16 b] 18
- 3. The fair of 3 full tickets and 2 half tickets is Rs.204 and the fair of 2 full tickets and 3 half tickets is Rs. 186. Find the fair of a full ticket and a half ticket.
 - al Rs.94
- b] Rs.78
- c] Rs.86
- d] Rs.62

4. If $\frac{3}{2}x + 2y = \frac{x}{4} - \frac{y}{2} = 1$, then x - y =

a] 1

b] 3

c] 2

- d] 0
- 5. If we add 1 to the numerator and subtract 1 from the denominator a fraction becomes 1. It also becomes $\frac{1}{2}$ if we add 1 to the denominator. Then the sum of the numerator and denominator of the fraction is
 - a] 7

bl 8

cl 2

- d] 11
- 6. 10 students of X^{std} took part in Maths quiz. If the number of girls is four more than the no of boys. Then the no of boys and girls are respectively b) 6, 4 c) 3, 7
 - a) 4, 6

- d) 7, 3
- 7. The system of equations given by 2x 3y = 6 and x + y = 1 will have
 - a) a unique solution

- b) no solution
- c) Infinitely many solution
- d) none



8. For what value of 'k' the system of equations has a unique solution

x - 2y = 3 and 3x + ky = 1

- a) $k \neq -6$
- b) $k \neq -2$ c) $k \neq -3$
- d) $k \neq 6$
- 9. The value of 'k' for which the system of equations given by

x + (k + 1) y = 4; (k + 1) x + 9y = 5k + 2

has infinitely many solutions

a) 1

a) 1

b) 2

b) 2

c) 3

- d) 4
- 10. The Value of 'k' for which the system of equations given by

3x + y = 1; (2k - 1)x + y = 2k + 1 will have no solutions

- c) 3
- d) 4