



ST. LAWRENCE HIGH SCHOOL



TOPIC – Simultaneous Linear Equation

Subject : Mathematics

Class-9

First Term

F. M. 15

WORKSHEET NO. - 4

Solutions

Date: 25.01.2021

Q.1) Choose the correct option:

(1x15=15)

- i) The value of r for which the equations $x - ry = r$ and $x + (r - 2)y = 2$ will have no solution is
 - a) 1
- ii) The solutions of the equations, $x - 8y - 1$ and $(4 + k)y - x + 1 = 0$ is possible if the value of k is not
 - c) 4
- iii) If the equations $3x + 5y = 6$ and $6x + 10y = m$ have infinite number of solutions then the value of m is
 - b) 12
- iii) The value of t for which the solution of the equation $x = \frac{3}{t+2}$ is not possible is
 - c) - 2
- v) If the equations $x - 2y = 3$ and $3x + ky = 1$ have unique solution then the value of k is
 - d) - 6
- vi) If the straight line $ax + 5y = 8$ and $3x + by = 7$ are parallel, then the relation between a and b is
 - c) $ab = 15$
- vii) If the equations $x + 3y + 5 = 0$ and $2x + ky + 10 = 0$ have infinite number of solutions then the value of k is
 - a) 6
- viii) If the equations $x - 3y = 5$ and $2x - ky = 1$ have unique solution, then
 - b) $k \neq 6$
- ix) The two equations $4x + 3y = 7$, and $7x - 3y = 4$ have
 - d) only one solution
- x) The two equations $3x + 6y = 15$, and $6x + 12y = 30$ have
 - b) infinite no of solutions
- xi) The two equations $4x + 4y = 20$, and $5x + 5y = 30$ have
 - c) no solution
- xii) Which of the following equations have a solution $(1, 1)$
 - c) $3x + 2y = 5$
- xiii) The two equations $4x + 3y = 25$ and $5x - 2y = 14$ have the solution
 - a) $x = 4, y = 3$
- xiv) The solution of the equation $x + y = 7$ are
 - d) $(1,6), (4,3)$
- xv) If $(x - 3)^2 + (y - 1/3)^2 = 0$, then the value of x/y is
 - b) 9

-Chaitali Roy