



ST. LAWRENCE HIGH SCHOOL



TOPIC- Simultaneous Equation

Sub: Mathematics

Class: 9

F. M. 15

WORK SHEET NO. -8

SOLUTION

Date: 15.4.2020

OBJECTIVE QUESTIONS

Choose the correct option : $1 \times 15 = 15$

- 1) If $y=2x$ and $x+2y=10$ then what is the value of y ?
d) 4
- 2) If $2x+3t=1$ and $y=t/3 + 1$ then what is the relation between x and y ?
b) $2x+9y=10$
- 3) If $x=2t$ and $y=t/3 - 1$ then for what value of t , $x=2y$?
d) $- 3/2$
- 4) If the sum of two numbers is equal to the sum of their reciprocal then what is the product of the numbers?
a) 1
- 5) For what value of k , the Simultaneous equations $7x-5y-4=0$ and $14x+ky+4=0$ will have no solution?
d) - 10
- 6) If the straight line $3x+4y=5$ and $4mx - 3y=2$ are mutually perpendicular, then $m=$ _____.
a) 1
- 7) If the straight line $ax+5y=8$ and $3x+by=7$ are parallel, then the relation between a and b is
d) $ab=15$
- 8) If the equations $x+3y+5=0$ and $2x+ky+10=0$ have infinite solutions then $k=$

a) 6

9) If the equations $3x+4y=5$ and $3x+ky=6$ have no solution, then $k=$
d) 4

10) The solution of the equations $2x+5y=8$ and $2x-ky=3$ is not possible if the value of k is _____.
a) - 5

11) The solution of the equations $x-8y=1$ and $(4+k)y-x+1=0$ is possible if the value of k is not _____.
b) 4

12) If $x+2t=1$ and $y/2+t=1$ then $y-x=$
a) 1

13) If $x/y=5/16$ and $x+y=21$ then the value of $(x-y) =$ _____.
b) - 11

14) The equations $2x-3y=1$ and $3x-2y=1$ have a _____ solution.
a) definite

15) The equations $3x+5y=7$ and $6x+10y=14$ have a _____ solution.
a) infinite

Debjani Das.