Work sheet, class-8

Simple simultaneous Equation

1) 9x-7y=13 and 5x-3y=9 are two equations.

(a) Determine which equation is satisfied by the point (0, 3)
(b) Solve the equation by elimination method.
(c) Draw the graph and find out the abscissa and the ordinate of the intersect point

2) ax –y = 1 and (x + ay)=8 are two simple equations

a) Justify a solution of ax-y=1 is (2,5) if a=3
b) Solve the pair of equation by elimination method
c) Solve the pair of equations with the help of graph when a=2

3) 3x-4y=4 and 2x-3y=2 are two simple equations

a) The sum of two numbers is 260 and smaller number is $\frac{1}{3}$ of larger number. Find the smaller number
b) Determine (x , y) by elimination method
c) Solve the pair of equations with the help of graph

4) (i) 3x-4y=2 and 5x+3y=42 are two simple equations (ii)If 5 is added with the numerator of a fraction, it will be 2 Again if 2 is added with the denominator it will be $\frac{1}{2}$

a) If a + b =5 and a-b=3 then find the value of (a, b)
b) Solve the equation from (i) by using elimination method
c) Find the fraction from equation(ii)

5) 2x+4y=4 and 3x-5y=6 are simple simultaneous equations.

a) Which equation is satisfied by the co-ordinate (4,-1)
b) Solve the equation by using elimination method
c) Solve the pair of equations with the help of graph

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