



ST. LAWRENCE HIGH SCHOOL

TOPIC – Simultaneous Linear Equation

Subject : Mathematics	Class-9	First Term	F. M. 15	
WORKSHEET NO 3	Solutions		Date: 23.01.2021	
Q.1) <u>Choose the correct option</u> :			(1x15=15))
 i) If the straight lines 3x + 4y = 5 and 4mx - 3y = 2 are mutually perpendicular, then the value of m is a) 1 				
ii) If the straight lines 3x - py = 1 b)2p -3q = 0	and qx + 2y = 2 ai	re parallel, then the re	elation between p and q is	
iii) If the equations $3x + 4y = 5$ ar c) 4	id 3x + ky = 6 have	e no solution, then k is	5	
iv) If x = 3t and y = $\frac{t}{2}$ - 1, then d) x - 6y = 6				
v) If x = 2t and y = $\frac{t}{3}$ -1, and x = 3y a) t = -3	r, then			
vi) The solution of the equations c) k = $\pm \frac{1}{\sqrt{2}}$	kx + (k – 1)y = 1 ar	nd (k – 1) x - ky = 1 is	possible when	
vii) The condition for which the ec c) $\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$	quations $a_1x + b_1y$	$+ c_1 = 0$ and $a_2x + b_2y$	+ c ₂ = 0 have infinite solutions	is
viii) In a number if digit in units' pl c) 10x + y			en the number will be	
ix) If $(x - p - q)^2 + (y + q)^2 = 0$, the a) p				
x) If (3x + 2y - 12) ² + (x + 2y - 8 d) - 1				
xi) The solution of the equations b)-5	2x + 5y = 8and 2x	- ky = 3 is not possible	e if the value of k is	
xii) If x + 2t = 1 and is $\frac{y}{2}$ + t = 1, th c) 1	en y - x =			
xiii) If $\frac{x}{y} = \frac{5}{16}$ and x + y = 21, then b)- 11	the value of (x - y	/) is		
xiv) If x + 2t ² and y = $\frac{t}{2}$ + 1, then for d) -2/3, 1	what value of t ,	x = 2y holds		
xv) The value of k for which the ed d) k = $1/3$	quation $x = \frac{5}{3k-1}h$	as no solution is		

-Chaitali Roy