Cluny Matric. Hr. Sec. School, Salem.

Class: 10 Maths Worksheet: 4

Put a tick in front of the correct answer

1. A system of three linear equations in three variables is inconsistent if their planes

(1) intersect only at a point

(2) intersect in a line

(3) coincides with each other

(4) do not intersect

2. The solution of the system x+ y – 3z=-6, 7y+7z=7, 3x = 9 is _____.

(1) x =1, y=2, z=3 (2) x = -1, y=2, z=3

(3) x= -1, y=-2, z=3 (4) x =1, y =- 2 , z=3.z

3. If (x – 6) is the HCF of x^2-2 x - 24 and x^2- kx -6 then the value of k is _____.

(1) 3 (2) 5 (3) 6

4. (3y-3)/y divided by (7y-7)/$3y^2$ is _____

(1)9y/7 (2) $9y^2/(21y-21)$

(3)$(21y^2-42y+1)/3y^2$ (4) none of these

5.The solution of $(2x-1)^2 = 9$ is equal to

(1) -1 (2) 2 (3) -1, 2 (4) none

6. Write the types of function

(i)

(ii)

(iii)

(iv)

(v)

7. Define function.

8. If $A \times B = \{(3,2), (3,4), (5,2), (5,4)\}$ then find A and B.

9. Let A = { 1, 2, 3 } B={ 4,5,6,7} and f = {(1 4,),(2,5)(3,6)} be a function from A to B. Show that f is one – one but not onto function.

10.Find k if fof (k) = 5 where f(k) = 2k-1

(Please note: The descriptive answers will be corrected by your teachers)