Activity Worksheet

Challenging brain

Sub : Mathematics **Grade: X** **Date: .....**

Name: ..... **ID No.....**

Multiple Choice Questions

1. The pair of equations y = a and y = b graphically represent lines which are

(a) intersecting at (a, b) (b) intersecting at (b, a)

(c) parallel (d) coincident

Sol.

2. The pair of equations x = 2 and y = 3 has

(a) one solution **(b) two solutions**

(c) many solutions **(d) no solution**

Sol.

3. The value of k for which the pair of equations kx + y = 3 and 3x +6 y = 5 has a unique solution is

(a) $-\frac{1}{2}$ (b) 2

(c) –2 (d) all the above

Sol.

4. If the lines given by 3x +2ky = 2 and 2x +5y +1 = 0 are parallel, then the value of k is

(a) $\frac{3}{2}$ (b) $\frac{15}{4}$

(c) $\frac{2}{5}$ (d) $-\frac{5}{4}$

Sol.

5. One equation of a pair of dependent linear equations is 3x - 4 y = 7. The second equation can be

(a) –6x +8 y =14 (b) –6x +8 y +14 = 0

(c) 6x +8 y =14 (d) -6x -8 y -14 = 0

Sol.