NCERT Class 10 Chapter 6 Pair of Linear Equations in Two Variables Official CBSE Board Sample Problems Multiple Choice Question (For CBSE, ICSE, IAS, NET, NRA 2022)

Question

5 pencils and 7 pens together cost ₹ 50 where as 7 pencils and 5 pens together cost ₹ 46. The cost of 1 pen is

1. ₹ 5

2. ₹ 6

3. ₹ 3

4. ₹ 4

Question

The value of 'k' so that the system of equations $3x - y - 5 = 0$ **and** $6x - 2y - k = 0$ **have infinitely many solutions is**

1. k =-10

2. k = 10

3. k =-8

4. k = 8

Question

The solution of $px + qy = p - q$ **and** $qx - py = p + q$ **is**

1. $x = -1$ and $y = 1$

2. x = 1 and $y = 1$

3. $x = 0$ and $y = 0$

4. $x = 1$ and $y = -1$

Question

A system of two linear equations in two variables is consistent, if their graphs

1. Do not intersect at any point

2. Coincide.

3. Cut the x -axis

4. Intersect only at a point or they coincide with each other

Question

The value of 'k' for which the system of equation $\mathrm{kx} - y = 2$ **and** $6x - = 3$ **has a unique solution is**

1. k = 3

2. k not equal to 3

3. k = 0

4. k not equal to 0

Question

The equation $\mathrm{ax}^n + \mathrm{by}^n + c = 0$ **represents a straight line if**

1. $n \geqslant 1$

2. $n \leqslant 1$

3. $n = 1$

4. None of these

Question

A pair of linear equation in two variables which has a common point i.e.. , which has only one solution is called a

1. Consistent pair

2. Inconsistent pair

3. Dependent pair

4. None of these

Question

For which, value (s) of p, will the lines represented by the following pair of linear equations be parallel

$3x - y - 5 = 0$

$6x - 2y - p = 0$

1. All real values except 10

2.10

3. $\frac{5}{2}$

4. $\frac{1}{2}$

Question

In a cricket match Kumble took three wickets less than twice the number of wickets taken by Srinath. The product of the number of wickets taken by these two is 20, and then the number of wickets taken by Kumble is

4

5

10

12

Question

If a pair of equations is consistent then the graphs of these equations are:

1. Parallel

2. Coincident

3. Intersecting

4. Either intersecting or coincident

Question

The lines $3x - 4y = 9$ **and** $y = 0$ **meet at**:

1. $(-3,0)$

2. $(3,0)$

3. $\frac{9}{4}, 0$

4. $\left(\frac{3}{2}, 0\right)$

Question

For what value of k, will the lines represented by the following pair of linear equation be parallel $3x + 2ky = 2$ **and** $2x + 5y + 1 = 0$.

1. -5
2. $\frac{15}{4}$
3. 1
4. None of the above

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