

SATISH CHANDRA MEMORIAL SCHOOL

PAIR OF LINEAR EQUATIONS IN TWO VARIABLES

CLASS TEST

FM = 18

1. The value of k for which the pair of linear equations $5x+2y-7=0$ and $2x+ky+1=0$ don't have a solution, is: 1

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

2. If $x = -2$ and $y = 3$ is a solution of the equation $5mx - 2y = 10$, then the value of m is: 1

- a) $\frac{5}{8}$ b) $\frac{8}{5}$ c) $-\frac{8}{5}$ d) $-\frac{5}{8}$

3. The solution of the form $(b, -b)$ always satisfy the equation: 1

- a) $x = -b$ b) $y = -a$ c) $y = x$ d) $x + y = 0$

Assertion (A) And Reason (R). Choose the correct option:

a. Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).

b. Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A).

c. Assertion (A) is true but Reason (R) is false.

d. Assertion (A) is false but Reason (R) is true.

4. **Assertion (A):** If $x = -1$ and $y = 2$ is a solution of the equation $3x + 2y = k$, then the value of k is 1.

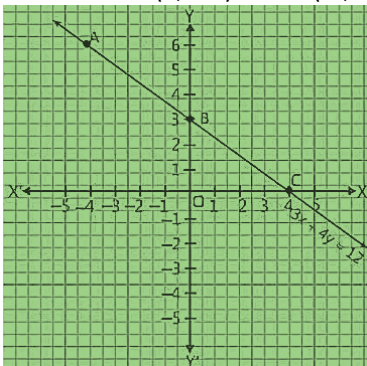
Reason (R): The solution of the line will satisfy the equation of the line. 1

5. **Assertion (A):** The linear equation $2x + 3y = 5$ has a unique solution.

Reason (R): A linear equation in two variables has infinitely many solutions. 1

6. For what value of p, if $x = 2$, $y = 3$ is solution of $(p+1)x - (2p+3)y - 1 = 0$ and write the equation? 2

7. Find the coordinates of B and C. Check whether P (2, 1.5) and Q (-3, 4) are the solution of the given equation or not. Find the length BC. 3



8. One renowned cell phone company has policy to make maximum number of users. So, he offered two different packages which are given below: 4

I Package : In this package, company charges a fixed monthly fees of ₹ 30 and call rate per minute is ₹

0.40. **II Package :** In this package, company charges a fixed monthly fees of ₹ 40 and call rate per minute is ₹ 0.50. Consider x as the charges per minute and y as the total amount.

I Package : a) Write the linear equation representing in this package.

b) If Anita do a call for 40 min, find the amount paid by Anita. **OR** If Kamla pays a total bill of ₹ 250, then find the number of minutes used by her.

II Package : c) If Vimal used 50 minutes talk time, then how much amount paid by Vimal?



9. Give the equations of two lines passing through the point (2, 3). Show it graphically. 4