

Linear Equations in Two Variables

1. OBJECTIVE QUESTIONS

1. Which of the following equation has graph parallel to y -axis?

(a) $y = -2$ (b) $x = 1$
(c) $x - y = 2$ (d) $x + y = 2$

Ans : (b) $x = 1$

$x = a$ has the graph which is parallel to y -axis.
 $x = 1$ is the required equation that has graph parallel to y -axis.

2. The distance between $M(-1, 5)$ and $N(x, 5)$ is 8 units. The value of x is
- (a) -9 or 9 (b) -7 or 9
(c) -9 or 7 (d) -7 or -9

Ans : (c) -9 or 7

The point $M(-1, 5)$ and $N(x, 5)$ lie on a line parallel to x -axis because their ordinates are same. Since the distance between the points is 8 units, therefore the value of x is -9 or 7 .

3. The linear equation $2x - 5y = 7$ has
- (a) A unique solution
(b) Two solutions
(c) Infinitely many solutions
(d) No solution

Ans : (c) Infinitely many solutions

Given linear equation has infinitely many solution.

4. If $P(x, y)$ and $P'(y, x)$ are same points then which of the following is true?
- (a) $x + y = 0$ (b) $xy = 0$
(c) $x - y = 0$ (d) $\frac{x}{y} = 0$

Ans : (c) $x - y = 0$

$$P(x, y) = P'(y, x)$$

$$x = y \text{ and } y = x$$

$$x - y = 0$$

5. The point of the form (a, a) always lies on:
- (a) x -axis (b) y -axis
(c) on the line $y = x$ (d) on the line $x + y = 0$

Ans : (c) on the line $y = x$

6. $2 = -y$ can be expressed in the form $ax + by + c = 0$

as

(a) $y + 2 = 0$ (b) $y + 0 \cdot x + 3 = 0$
(c) $0 \cdot x + 1 \cdot y - 2 = 0$ (d) $0 \cdot x + 1 \cdot y + 2 = 0$

Ans : (d) $0 \cdot x + 1 \cdot y + 2 = 0$

$$2 = -y$$

$$2 + y = 0$$

$$x \cdot 0 + y \cdot 1 + 2 = 0 \text{ in the form as } ax + by + c = 0$$

7. Age of a father is 7 years more than 3 times the present age of his son. The above statement can be expressed in a linear equation as

(a) $x - 3y - 7 = 0$ (b) $x + 3y + 7 = 0$
(c) $x + 3y - 7 = 0$ (d) $x - 3y + 7 = 0$

Ans : (a) $x - 3y - 7 = 0$

Let father's age be x and son's age = y

$$x = 3y + 7$$

$$x - 3y - 7 = 0.$$

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8. If $(3, -2)$ is a solution of the equation $3x - py - 7 = 0$, then the value of p is

(a) -1 (b) 1
(c) $-\frac{13}{3}$ (d) 2

Ans : (a) -1

$$3(3) - p(-2) - 7 = 0$$

$$2 + 2p = 0$$

$$p = -1$$

9. If $x = 1$ and $y = 0$ is the solution of equation $2x + \sqrt{3}y - 4a = 0$, then the value of a is

(a) 7 (b) $-\frac{1}{2}$
(c) $\frac{1}{2}$ (d) $\frac{1}{3}$

Ans : (c) $\frac{1}{2}$

$$2x + \sqrt{3}y - 4a = 0$$

has solution, $x = 1, y = 0$

$$2 \times 1 + \sqrt{3} \times 0 - 4a = 0$$

$$2 = 4a$$

$$a = \frac{1}{2}$$

10. If $(a, 1)$ lies on the graph of $3x - 2y + 4 = 0$, then $a =$

(a) $-\frac{2}{3}$ (b) $\frac{2}{3}$

(c) $\frac{3}{2}$ (d) $\frac{-3}{2}$

Ans : (a) $\frac{-2}{3}$

Since $(a, 1)$ lies on

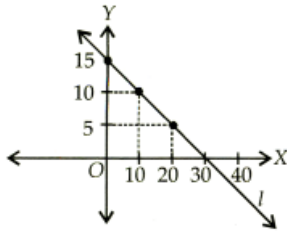
$$3x - 2y + 4 = 0$$

$$3 \times a - 2 \times 1 + 4 = 0$$

$$3a = -4 + 2 = -2$$

$$a = \frac{-2}{3}$$

11. If $(20, -a)$ lies on l whose graph is given then the value of a is



- (a) -5 (b) 5
(c) -10 (d) 10

Ans : (a) -5

Since $(20, -a)$ lies on graph
For $x = 20$ from graph $y = 5$
 $(20, 5)$ lies on graph

$$(20, 5) = (20, -a)$$

$$-a = 5$$

$$a = -5.$$

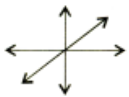

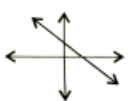
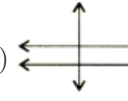
12. A solution of the equation $2x + 5y - 3 = 0$ is

- (a) $(5, -2)$ (b) $(-5, 2)$
(c) $(-1, 1)$ (d) $(1, -1)$

Ans : (c) $(-1, 1)$

$(-1, 1)$ satisfies the equation $2x + 5y - 3 = 0$

13. Which could be the graph of $y = x$?

- (a)  (b) 
(c)  (d) 

Ans : (a)

For equation $y = x$, $(0, 0)$ is one of the solution So, graph should pass through origin $(0, 0)$. This is satisfied by only (a).

14. If $(\sqrt{2}, -\sqrt{2})$ lies on the graph $4x - 3ay = \sqrt{2}$, then the value of a equals

- (a) 1 (b) -1
(c) 0 (d) -2

Ans : (b) -1

Since $(\sqrt{2}, -\sqrt{2})$ lies on $4x - 3ay = \sqrt{2}$
It must be solution of $4x - 3ay = \sqrt{2}$
 $4 \times \sqrt{2} - 3a(-\sqrt{2}) = \sqrt{2}$

$$3a\sqrt{2} = \sqrt{2} - 4\sqrt{2}$$

$$3a\sqrt{2} = -3\sqrt{2}$$

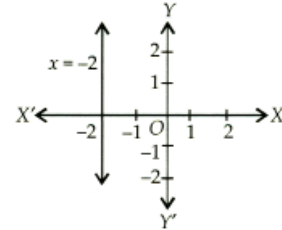
$$a = -1$$

15. The geometric representation of $x = -2$ meets the x -axis at

- (a) $(2, 0)$ (b) $(-2, 0)$
(c) $(0, 2)$ (d) $(0, -2)$

Ans : (b) $(-2, 0)$

From graph, $x = -2$, intersect x -axis at $(-2, 0)$.



16. If a linear equation has solutions $(-2, 2)$, $(0, 0)$ and $(2, -2)$, then it is of the form

- (a) $y - x = 0$ (b) $x + y = 0$
(c) $-2x + y = 0$ (d) $-x + 2y = 0$

Ans : (b) $x + y = 0$

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17. The equation $x = 7$, in two variables, can be written as

- (a) $1 \cdot x + 1 \cdot y = 7$ (b) $1 \cdot x + 0 \cdot y = 7$
(c) $0 \cdot x + 1 \cdot y = 7$ (d) $0 \cdot x + 0 \cdot y = 7$

Ans : (b) $1 \cdot x + 0 \cdot y = 7$

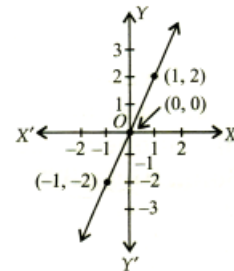
18. The number of solutions, the equation $3x + 5y + 15 = 0$ can have

- (a) one only (b) exactly two
(c) zero (d) infinite

Ans : (d) infinite

$3x + 5y + 15 = 0$ is a linear equation in two variables and every linear equation in two variables has infinite many solutions.

19. The equation of line shown in the graph is



- (a) $x + y = 0$ (b) $y = 2x$
(c) $y = x$ (d) $y = 2x + 1$

Ans : (b) $y = 2x$

In figure, the points on the line are $(-1, -2)$, $(0, 0)$, $(1, 2)$. By inspection, $y = 2x$ is the equation corresponding to this graph, as the y -coordinate in each case is

double that of the x - coordinate.

$$k = 4 - 3$$

$$k = 1$$

20. Abscissa of all points on the y -axis is
 (a) 0 (b) 1
 (c) -1 (d) None of these

Ans : (a) 0

21. The value of x for which $y = -4$ is a solution of the linear equation $5x - 8y = 47$ is
 (a) -3 (b) 3
 (c) $\frac{79}{5}$ (d) $-\frac{79}{5}$

Ans : (b) 3

As $y = -4$ is a solution of $5x - 8y = 47$

Hence, $5x - 8y = 47$

$$5x + 32 = 47$$

$$5x = 15$$

$$x = 3$$

22. Ordinate of all points on the x -axis is
 (a) 0 (b) 1
 (c) 2 (d) -1

Ans : (a) 0

23. If the point $(3, 4)$ lies on the graph of the equation $3y = ax + 7$, the value of a is
 (a) $\frac{5}{3}$ (b) $\frac{3}{5}$
 (c) 1 (d) $\frac{2}{5}$

Ans : (a) $\frac{5}{3}$

$(3, 4)$ lies on $3y = ax + 7$

$$3 \times 4 = a \times 3 + 7$$

$$12 - 7 = a \times 3$$

$$a = \frac{5}{3}$$

24. The graph of $y = 6$ is a line
 (a) parallel to x -axis at a distance 6 units from the origin
 (b) parallel to y -axis at a distance 6 units from the origin
 (c) making an intercept 6 on the x -axis
 (d) making an intercept 6 on both the axes

Ans : (a) parallel to x -axis at a distance 6 units from the origin

25. The value of k , if $x = 2, y = -1$ is a solution of the equation $2x + 3y = k$ is
 (a) 6 (b) 7
 (c) 5 (d) 1

Ans : (d) 1

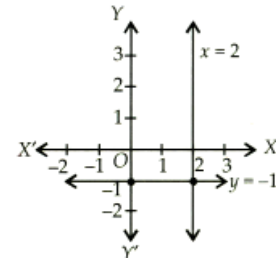
$x = 2, y = -1$ is solution of equation

$$2x + 3y = k$$

$$2 \times 2 + 3 \times (-1) = k$$

26. Graph of $x = 2$ and $y = -1$ intersect at
 (a) $(-1, 2)$ (b) $(2, -1)$
 (c) $(1, 2)$ (d) $(2, 1)$

Ans : (b) $(2, -1)$



From graph point of intersection is $(x = 2, y = -1)$ i.e., $(2, -1)$.

27. The equation $2x + 5y = 7$ has a unique solution, if x, y are:
 (a) Natural numbers (b) Positive real numbers
 (c) Real numbers (d) Rational numbers

Ans : (a) Natural numbers

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28. $8y = 9$ when written as an equation in two variables, is
 (a) $x + 8y = 9$ (b) $0 \cdot x + 8y + 9 = 0$
 (c) $0 \cdot x + 8y - 9 = 0$ (d) $0 \cdot x + 8y = 0$

Ans : (c) $0 \cdot x + 8y - 9 = 0$

$$8y = 9$$

can be written as in two variables as

$$0 \cdot x + 8y - 9 = 0$$

$$0 \cdot x + 8 \cdot y - 9 = 0$$

29. Which of the following equations represents a line parallel to y -axis?
 (a) $2y = 5x$ (b) $2y = 5$
 (c) $2x = 5$ (d) $2x + 3y = 5$

Ans : (c) $2x = 5$

Line

$$2x = 5$$

$$x = \frac{5}{2} \text{ which is parallel to } y\text{-axis}$$

30. The linear equation $3x = 2y$ when expressed in the form $ax + by + c = 0$, then a, b, c are respectively
 (a) 3, 2, 0 (b) 3, 2, 1
 (c) 3, -2, 0 (d) 3, -2, 1

Ans : (c) 3, -2, 0

We have,

$$3x = 2y$$

$$3x - 2y = 0$$

$$3x + (-2)y + 0 = 0$$

Now, comparing it with

$$ax + by + c = 0,$$

we get $a = 3, b = -2$ and $c = 0$

31. Which of the following equations represents a line parallel to x -axis?

- (a) $3x + 2 = 0$ (b) $3y + 2 = 0$
 (c) $3x + 2y = 0$ (d) $3x - 2y = 0$

Ans : (b) $3y + 2 = 0$

$$3y + 2 = 0$$

$$y = -\frac{2}{3}$$

It is the line parallel to x -axis.

32. $ax + by + c = 0$ does not represent equation of line, if

- (a) $a = c = 0, b \neq 0$ (b) $c = 0, a \neq 0, b \neq 0$
 (c) $b = c = 0, a \neq 0$ (d) $a = b = 0$

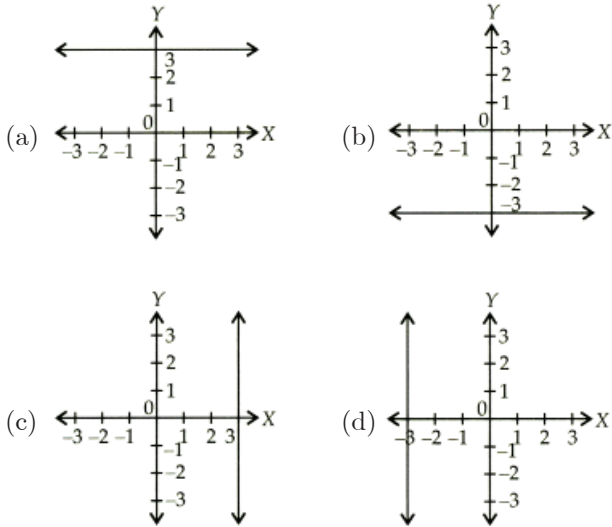
Ans : (d) $a = b = 0$

33. An ordered pair that satisfy an equation in two variables is called its.

- (a) Zero (b) Root
 (c) Solution (d) Both (b) and (c)

Ans : (c) Solution

34. Geometric representation of $x = -3$ as an equation in two variables is



Ans : (d)

$x = -3$ is a line parallel to y -axis and passes through the point $(-3, 0)$.

35. Richa had 10 chocolates, let her brother borrowed y chocolates from her and then Richa had 4 chocolates. Which equation models this solution?

- (a) $10 - y = 4$ (b) $10 + y = 4$
 (c) $10y = 4$ (d) $4y = 10$

Ans : (a) $10 - y = 4$

Total number of chocolates Richa had = 10

Number of chocolates her brother borrowed = y

Number of chocolates left with Richa = 4

$$10 - y = 4$$

36. Which of the following is a solution of the equation $2x + 3y = 6$?

- (a) $(1, 2)$ (b) $(1, 1)$
 (c) $(-3, 4)$ (d) $(3, 1)$

Ans : (c) $(-3, 4)$

We have, $2x + 3y = 6$

a. $(1, 2)$ means $x = 1$ and $y = 2$. Putting these values in $2x + 3y = 6$, we get

$$\text{L.H.S} = 2 \times 1 + 3 \times 2 = 8 \neq \text{R.H.S}$$

$(1, 2)$ is not a solution of $2x + 3y = 6$

b. $(1, 1)$ means $x = 1$ and $y = 1$, Putting these values in $2x + 3y = 6$, we get

$$\text{L.H.S} = 2 \times 1 + 3 \times 1 = 5 \neq \text{R.H.S}$$

$(1, 1)$ is not a solution of $2x + 3y = 6$

c. $(-3, 4)$ means $x = -3$ and $y = 4$, Putting these values in $2x + 3y = 6$, we get

$$\text{L.H.S} = 2 \times (-3) + 3 \times 4$$

$$= -6 + 12 = 6 = \text{R.H.S}$$

$(-3, 4)$ is a solution of $2x + 3y = 6$

d. $(3, 1)$ means $x = 3$ and $y = 1$, Putting these values in $2x + 3y = 6$, we get

$$\text{L.H.S} = 2 \times 3 + 3 \times 1 = 9 \neq \text{R.H.S}$$

$(3, 1)$ is not a solution of $2x + 3y = 6$

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2. FILL IN THE BLANK

DIRECTION : Complete the following statements with an appropriate word/term to be filled in the blank space(s).

1. An equation of the form $cy + d = 0$, where c, d are real numbers and $c \neq 0$, in the variable y geometrically represents a on the number line.

Ans : point

2. An equation of the type $y = mx$ represents a line passing through the

Ans : origin.

3. The graphs of $x = a$ is a straight line parallel to the axis.

Ans : y

4. A linear equation in two variables has solutions.

Ans : infinitely many

5. $x = 0$ is the equation of the axis and $y = 0$ is the equation of the axis.

Ans : y, x

6. The graphs of every linear equation in two variables is a

Ans : straight line

7. The graphs of $y = a$ is a straight line parallel to the

..... axis.

Ans : x

8. Every of the linear equation is a point on the graph of the linear equation.

Ans : solution

3. TRUE/FALSE

DIRECTION : Read the following statements and write your answer as true or false.

1. An equation of the form $ax + by + c = 0$, where a, b and c are real numbers, such that a and b are both zero, is called a linear equation in two variables.

Ans : False

2. The graph of the equation $y = mx + c$ passes through the origin.

Ans : False

Because $x = 0, y = 0$ does not satisfy the equation.

3. $y = 3x + 5$ has a unique solution.

Ans : False

4. The line parallel to the y -axis at a distance 4 units to the left of y -axis is given by the equation $x = -a$.

Ans : True

Since the line parallel to y -axis at a distance a units to the left to y -axis is given by the equation $x = -a$.

5. $(0, 2)$ is a solution for $x - 2y = 4$

Ans : False

6. All the points $(2, 0), (-3, 0), (4, 2)$ and $(0, 5)$ lie on the x -axis.

Ans : False

The points $(2, 0), (-3, 0)$ lie of the x -axis. The point $(4, 2)$ lies in the first quadrant. The point $(0, 5)$ lies on the y -axis.

7. $(2, \frac{1}{2})$ is a solution for $x = 4y$

Ans : True

8. The solution of a linear equation is not affected when the same number is added to both the sides of the equation.

Ans : True

4. MATCHING QUESTIONS

DIRECTION : In the section, each question has two matching lists. Choices for the correct combination of elements from Column-I and Column-II are given as options (a), (b), (c) and (d) out of which one is correct.

1. Match the equation given in Column-I with their solution sets given in Column-II.

| Column-I | | Column-II | |
|----------|--------------|-----------|----------|
| (P) | $2x + y = 7$ | (1) | $(0, 9)$ |
| (Q) | $x - 2y = 4$ | (2) | $(1, 5)$ |
| (R) | $x - 4y = 0$ | (3) | $(0, 0)$ |
| (S) | $px + y = 9$ | (4) | $(4, 0)$ |

| | P | Q | R | S |
|-----|---|---|---|---|
| (a) | 4 | 1 | 3 | 2 |
| (b) | 1 | 4 | 3 | 2 |
| (c) | 4 | 3 | 1 | 2 |
| (d) | 2 | 4 | 3 | 1 |

Ans : P - 2, Q - 4, R - 3, S - 1

(P) $2x + y = 7$
 $y = 7 - 2x$

When, $x = 1, y = 7 - 2 = 5$
 $(1, 5)$ is the solution.

(Q) $x - 2y = 4$
 $x = 4 + 2y$

When, $y = 0$
 $x = 4 + 2 \times 0 = 4$

$(4, 0)$ is the solution.

$(0, 0)$ is solution

(R) $x - 4y = 0$
 $x = 4y$

When, $x = 0, y = 0$
 $(0, 0)$ is the solution.

(S) $px + y = 9$

When $x = 0, y = 9$
 $(0, 9)$ is the solution.

2. In European countries temperature is measured in Fahrenheit, whereas in Asian countries, it is measured in Celsius. the linear equation that converts Fahrenheit to Celsius is $C = 1/9(F - 32) \times 5$
 Match the temperatures given in Column-I with temperatures given in Column-II.

| Column-I | | Column-II | |
|----------|-----------------------------|-----------|--------------|
| (P) | 26°C in $F =$ | (1) | 104° |
| (Q) | 64°F in $C =$ | (2) | 8.9° |
| (R) | 48°F in $C =$ | (3) | 78.8° |
| (S) | 40°C in $F =$ | (4) | 17.8° |

| | P | Q | R | S |
|-----|---|---|---|---|
| (a) | 4 | 1 | 3 | 2 |
| (b) | 3 | 4 | 2 | 1 |
| (c) | 4 | 3 | 1 | 2 |
| (d) | 2 | 1 | 3 | 4 |

Ans : P – 3, Q – 4, R – 2, S – 1

$$C = \frac{1}{9}(F - 32) \times 5$$

(P) $C = 26^\circ$

$$\frac{1}{9}(F - 32) \times 5 = 26^\circ$$

$$F - 32 = \frac{26^\circ \times 9}{5}$$

$$F = 46.8^\circ + 32 = 78.8^\circ$$

(Q) $F = 64^\circ$

$$\frac{1}{9}(64^\circ - 32) \times 5 = C$$

$$\frac{32^\circ \times 5}{9} = C$$

$$C = 17.8^\circ$$

(R) $F = 48^\circ$

$$\frac{1}{9}(48^\circ - 32) \times 5 = C$$

$$\frac{16^\circ \times 5}{9} = C$$

$$C = 8.9^\circ$$

(S) $C = 40^\circ$

$$\frac{1}{9}(F - 32) \times 5 = 40^\circ$$

$$F - 32 = \frac{40^\circ \times 9}{5}$$

$$F = 72^\circ + 32$$

$$F = 104^\circ$$

3. Math the following

| | Column-I | | Column-II |
|-----|----------|-----|--------------------------------------|
| (P) | $x = a$ | (1) | x -axis |
| (Q) | $y = a$ | (2) | Straight line parallel to x -axis |
| (R) | $y = mx$ | (3) | Straight line parallel to y -axis |
| (S) | $y = 0$ | (4) | Straight line passing through origin |

Ans : P – 3, Q – 2, R – 4, S – 1

4. Math the following

| | Column-I | | Column-II |
|-----|---------------|-----|------------|
| (P) | $x + y = 0$ | (1) | $(3/2, 3)$ |
| (Q) | $y - 2x = 0$ | (2) | $(-5, 5)$ |
| (R) | $3x + 5y = 0$ | (3) | $(5, -2)$ |
| (S) | $2x - y = 12$ | (4) | $(0, 0)$ |
| | | (5) | $(-5, 3)$ |
| | | (6) | $(5, -3)$ |

Ans : P – (2, 4), Q – 1, R – (5, 6), S – 3

5. ASSERTION AND REASON

DIRECTION : In each of the following questions, a statement of Assertion is given followed by a corresponding statement of Reason just below it. Of the statements, mark the correct answer as

- (a) Both assertion and reason are true and reason is the correct explanation of assertion.
- (b) Both assertion and reason are true but reason is not the correct explanation of assertion.
- (c) Assertion is true but reason is false.
- (d) Assertion is false but reason is true.

1. **Assertion :** There are infinite number of lines which passes through (2,14).

Reason : A linear equation in two variables has infinitely many solutions.

Ans : (b) Both assertion and reason are true but reason is not the correct explanation of assertion.

Through a point infinite lines can be drawn. Through (2, 14) infinite number of lines can be drawn. Also a line has infinite points on it hence a linear equation representing a line has infinite solutions.

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

Reason : A linear equation in two variables has infinitely many solutions.

Ans : (d) Assertion is incorrect but Reason is correct.

3. **Assertion :** For all values of $k, \left(-\frac{3}{2}, k\right)$ is a solution of the linear equation $2x + 3 = 0$.

Reason : The linear equation $ax + b = 0$ can be expressed as a linear equation in two variables as $ax + y + b = 0$.

Ans : (c) Assertion is true but reason is false.

$$\left(-\frac{3}{2}, k\right) \text{ is a solution of } 2x + 3 = 0$$

$$2 \times \left(-\frac{3}{2}\right) + 3 = -3 + 3 = 0$$

$$\left(-\frac{3}{2}, k\right) \text{ is the solution of } 2x + 3 = 0$$

for all values of k .

Also $ax + b = 0$ can be expressed as a linear equation in two variables as $ax + 0 \cdot y + b = 0$.

4. **Assertion :** All the points (1, 0), (-1, 0), (2, 0) and (5, 0) lie on the x -axis.

Reason : Equation of the x -axis is $y = 0$.

Ans : (a) Both Assertion and Reason are correct and Reason is the correct explanation of Assertion.

5. **Assertion :** The graph of the linear equation $x - 2y = 1$ passes through the point (3,1).

Reason : Every point lying on graph is not a solution of $x - 2y = 1$.

Ans : (c) Assertion is true but reason is false.

If (3,1) lies on the graph of $x - 2y = 1$

For $x - 2y = 1, (3, 1)$

is a solution as $3 - 2 \times 1 = 1$.

- 6. Assertion :** The point (0, 3) lies on the graph of the linear equation $3x + 4y = 12$.

Reason : (0, 3) satisfies the equation $3x + 4y = 12$.

Ans : (a) Both Assertion and Reason are correct and Reason is the correct explanation of Assertion.

- 7. Assertion :** The equation of $2x + 5 = 0$ and $3x + y = 5$ both have degree 1.

Reason : The degree of a linear equation in two variables is 2.

Ans : (c) Assertion is true but reason is false.

Every linear equation has degree 1.

$2x + 5 = 0$ and $3x + y = 5$ are linear equations. So, both have degree 1.

- 8. Assertion :** The graph of the equation $3x + y = 0$ is a line passing through the origin.

Reason : An equation of the form $ax + by + c = 0$, where a, b, c are real numbers is called a linear equation in x and y .

Ans : (b) Both Assertion and Reason are correct, but Reason is not the correct explanation of Assertion.

- 9. Assertion :** The graph of every linear equation in two variables need not be a line.

Reason : Graph of a linear equation in two variables is always a line.

Ans : (d) Assertion is incorrect but Reason is correct.

- 10. Assertion :** The point (1,1) is the solution of $x + y = 2$.

Reason : Every point which satisfy the linear equation is a solution of the equation.

Ans : (a) Both assertion and reason are true and reason is the correct explanation of assertion.

Putting (1,1) in the given equation, we have

$$\text{L.H.S} = 1 + 1 = 2 = \text{R.H.S}$$

$$\text{L.H.S} = \text{R.H.S}$$

Hence (1,1) satisfy the $x + y = 2$. So it is the solution of $x + y = 2$.

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