

ASSIGNMENT - 3

Class – 9th Max Marks:20 **Subject : MATHS** : 1 Hour Time

CHAPTER – 4 LINEAR EQUATIONS IN TWO VARIABLES

| Q.1 If $P(x, y)$ and p' | (y, x) are same | points then v | which of the | following is |
|---------------------------|-----------------|---------------|--------------|--------------|
| true? | | | | |

a.
$$x + y = 0$$

b.
$$xy = 0$$

b.
$$xy = 0$$
 c. $x - y = 0$

d.
$$\frac{x}{y} = 0$$

Q.2 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.
$$x - 3y + 7 = 0$$

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

- a. one only
- b. exactly two
- c. Zero
- d. Infinite

Q.4 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.
$$-\frac{3}{2}$$

Q.5 The geometric representation of x = -2 meets the x - axis at

- a. (2, 0)
- b. (-2, 0)

- c.(0,2)
- d.(0, -2)

Q.6 Abscissa of all points on the y-axis is:-

a. 0

b. 1

- c. -1
- d. none of these

Q.7 An ordered pair that satisfy an equation in two variables is called its

- a. zero
- b. root

- c. Solution
- d. Both 'a' and 'b'

Q.8 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.
$$10y = 4$$

$$d. 4y = 10$$

Q. 9 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) | | | | |
|--|-----------------------------|--------------------|---|------------------------------------|--|--|--|--|
| Q.10 $ax + by + c = 0$ does not represent equation of line, if | | | | | | | | |
| | a. $a = c = 0, b \neq 0$ | | b. $c = 0$, a | b. $c = 0$, $a \ne 0$, $b \ne 0$ | | | | |
| | c. $b = c = 0$, $a \neq 0$ | | d. $a = b = 0$ | | | | | |
| Q.11 | Find the value | of m, if (-m, 3) i | is a solution of e | y = 4x + 9y - 3 = 0. | | | | |
| | a. 6 | b6 | c. 4 | d4 | | | | |
| Q.12 The graph of the line $x = 3$ passes through the point. | | | | | | | | |
| | a. (o, 3) | b. (2, 3) | c. (3, 2) | d. none of these. | | | | |
| Q.13 Graph of $x = 2$ and $y = -1$ intersect at | | | | | | | | |
| | a. (-1, 2) | b. (2,-1) | c. (1, 2) | d. (2, 1) | | | | |
| Q.14 Which of the following equation has graph parallel to y axis? | | | | | | | | |
| | a. $y = -2$ | b. $x = 1$ | c. x - y = 2 | 2 d. $x + y = 2$ | | | | |
| Q.15 Find the coordinates of the point, where the graph of $3x + y = 9$ cuts | | | | | | | | |
| | the x –axis | | | | | | | |
| | a. (3, 0) | b. (0, 2) | c. (2, 0) | d. (0, -3) | | | | |
| Q.16 | If (2, 1) and (1, | 0) lie on the gra | $\mathbf{ph of } \frac{x}{a} + \frac{y}{b} = 1\mathbf{t}$ | hen the values of a and b are | | | | |
| | | | b. $a = -1, b = 1$ | | | | | |
| | c. $a = 2, b = 1$ | | d. $a = 1$, $b = 2$ | | | | | |
| Q.17 If $2a - 3 = 5$ and $3b + 1 = 2$ then $3b - 2a$ is | | | | | | | | |
| | | b9 | | d7 | | | | |
| Q.18 Find the value of k. if $(1, -1)$ is a solution of the equation $3x - ky = 8$ and the | | | | | | | | |
| | | er point lying o | | - | | | | |
| | | | c. 5; (6, -2) | d. 5; (-6, 2) | | | | |
| Q.19 The distance between the graph of the equations $x = -3$ and $x = 2$ is | | | | | | | | |
| | a. 5 | | | | | | | |
| Q.20 Find the area enclosed between the lines $x + y = 0$ and $x = 2$ | | | | | | | | |
| | a. 4 sq. units | b. 8 sq. units | c. 6 sq. units | d. 9 sq. units | | | | |
| Q.21 | The graph of y | = m is a straigh | t line parallel to | | | | | |
| | a. x-axis | b. y- axis | c. both axis | d. none of these | | | | |
| Q.22 Any point on the line $y = 3x$ is of the form | | | | | | | | |
| | | | c. $(a, \frac{a}{3})$ | d. $(\frac{a}{2}, -a)$ | | | | |
| | | | 3 | 3 | | | | |
| | | | | | | | | |

| 7 | | | | | | | | |
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| 7 | | | | | | | | |
| 7x | | | | | | | | |
| 2.24 For the equation $5x-7y=35$. If $y=5$ then the value of x is | | | | | | | | |
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| hese | | | | | | | | |
| n zero | | | | | | | | |
| number, then the solution of the linear equation . | | | | | | | | |
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| b. Remains the same | | | | | | | | |
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| c. A line parallel to x- axis d. A line parallel to y- axis | | | | | | | | |
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| Q.29 Write the equation of following lines. | | | | | | | | |
| 1. Passing through (7, 0) and parallel to y- axis. | | | | | | | | |
| 2. Passing through (0, 3) and parallel to x –axis. | | | | | | | | |
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| -3=0? | | | | | | | | |
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