# CLASS-9TH, SET-8, MATHS(LINEAR EQUATION IN TWO VARIABLES) 19.07.2020

1. A point $(x, 0)$ lies on

   (a) $+x$ axis
   (b) $-x$ axis
   (c) $x$ axis
   (d) $y-axis$

2. Image of the point $(-3, 2)$ in $y-$axis is

   (a) $(-3, -2)$
   (b) $(3, 2)$
   (c) $(3, -2)$
   (d) none

3. A point in $3^{\text{rd}}$ quadrant having distances from co-ordinate axes $3$ and $4$ units respectively, will be

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

4. A person is standing at point $(3, 10)$ now he moves $10$ meter in West then his new position will be

   (a) $(3, -10)$
   (b) $(7, 10)$
   (c) $(-7, 10)$
   (d) $(-7, 3)$

5. Madhuri and Shailja are standing at points $(3, 4)$ & $(-2, 4)$ respectively, distance between them is

   (a) $5$
   (b) $8$
   (c) $6$
   (d) $4$

6. A circle is constructed as its centre is at origin and this circle passes through the point $(-3, 4)$ then its diameter is of length ( in units) -

   (a) $5$
   (b) $4$
   (c) $7$
   (d) $10$

7. The distance between a point $A(-4, 3)$ and its image in $x-$axis , is

   (a) $6$
   (b) $8$
   (c) $5$
   (d) none

8. Which of these points doesn't lie on the straight line $y = 3$

   (a) $(1, 3)$
   (b) $(0, 3)$
   (c) $(3, 4)$
   (d) $(-2, 3)$

9. At what distance do the lines $y = 3$ and $x = -2$ intersect, from the origin?

   (a) $3$
   (b) $13$
   (c) $\sqrt{13}$
   (d) $5$

10. The sum of the distance of point $(-4, -3)$ from co-ordinate axes is

    (a) $5$
    (b) $7$
    (c) $-7$
    (d) $1$

11. A person is standing at $(2, 1)$ now he moves due North by $4$ meters then due West by $3$ meters and reaches to a point $B$. Co-ordinates of point $B$ are

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

12. Vertices of a rectangle $ABCD$ are $A(1, 0), B(5, 0), C(5, 3)$ and $D(1, 3)$ then area of the rectangle is

    (a) $4$
    (b) $12$
    (c) $8$
    (d) none of these

13. If $xy > 0, x > 0$ then point $p(x, y)$ will lie in which quadrant

    (a) $\mathbf{I}$
    (b) $\mathbf{II}$
    (c) $\mathbf{III}$
    (d) $\mathbf{IV}$

14. Reflection of a point P lying in $\mathbf{1^{st}}$ quadrant with respect to $y$ -axis will be in which quadrant

    (a) $\mathbf{IV}$
    (b) $\mathbf{III}$
    (c) $\mathbf{II}$
    (d) $\mathbf{I}$

15. Which of these points is not at a distance of $5$ unit from origin?

    (a) $(-3, -4)$
    (b) $(0, 5)$
    (c) $(-4, 3)$
    (d) $(3, 2)$

16. The straight line given by the equation $2x + y = 6$ doesn't pass through which of these points?

    (a) $(0, 6)$
    (b) $(3, 0)$
    (c) $(2, 2)$
    (d) $(-2, 2)$

17. A linear equation in two variables has

    (a) unique solution
    (b) Two solutions
    (c) Infinitely many solutions
    (d) No solution

18. Points $(3, 5), (-1, -3), (0, -1)$ lie on which of these lines?

    (a) $y = 2x - 1$
    (b) $x + y = 8$
    (c) $x + y = 2$
    (d) none

19. Which of these is not a linear equation in 2 variable ?

    (a) $x - 2y = 10$
    (b) $3x + 1 = 0$
    (c) $y = x - 3$
    (d) $2y + 3x = 10$

20. $(-1, 2), (3, 2), (4, 2)$ are the solutions of the linear equation

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

21. The straight line given by $x - 2y = 6,$ doesn't pass through which quadrant

    (a) $\mathbf{I}$
    (b) $\mathbf{II}$
    (c) $\mathbf{III}$
    (d) $\mathbf{IV}$

22. Cost prizes of a table and a chair are $x$ and $y$ respectively. They are sold at $20\%$ profit on each and $\mathbf{Rs.\ 2000}$ are received then this belongs to which equation

    (a) $x + y = 2000$
    (b) $x + 2y = 2000$
    (c) $2x + 2y = 2000$
    (d) $1.2(x + y) = 2000$

23. The distance between the straight lines $x = 3$ and $x = 4$ is

    (a) $1$ unit
    (b) $2$ unit
    (c) $3$ units
    (d) $4$ units

24. The unique solution for the pair of linear equations $2x + y = 8$ and $3x - 2y = 5$ is

    (a) $(2, 3)$
    (b) $(4, 0)$
    (c) $(-1, 10)$
    (d) $(3, 2)$

25. The point where the straight line $2x - 3y = 6$ cuts $x - axis$ is

    (a) $(0, 3)$
    (b) $(2, 0)$
    (c) $(3, 0)$
    (d) $(0, 2)$

26. The point where the straight line $9x - 2y = 9$ cuts $y - axis,$ is

    (a) $(0, 9/2)$
    (b) $(0, -9/2)$
    (c) $(0, 2)$
    (d) $(0, -2)$

27. A straight line $x + y - 4 = 0$ cuts coordinate axes at $A$ and $B$. $O$ be the origin then area of the triangle $OAB$ will be

    (a) $4$ sq. units
    (b) $8$ sq. units
    (c) $16$ sq. units
    (d) $0$ sq. units

28. When we draw the straight line given by the equation $y = 2 - x$, it does not pass through which of these quadrants?

    (a) $I$
    (b) $II$
    (c) $III$
    (d) $IV$

29. Which of these straight lines doesn't pass through origin?

    (a) $x + y = 2$
    (b) $x - y = 0$
    (c) $3x - 8y = 0$
    (d) $4x = 3y$

30. When we draw two straight lines given by $2x - y = 3$ and $4x - 2y = 7$ on the graph then they

    (a) intersect each other
    (b) are parallel
    (c) are conciding
    (d) are intersect at two points

# Answer Key

1. **Answer:** c

2. **Answer:** b

3. **Answer:** c

4. **Answer:** c

5. **Answer:** a

6. **Answer:** d

7. **Answer:** a

8. **Answer:** c

9. **Answer:** c

10. **Answer:** b

11. **Answer:** a

12. **Answer:** b

13. **Answer:** a

14. **Answer:** c

15. **Answer:** d

16. **Answer:** d

17. **Answer:** c

18. **Answer:** a

19. **Answer:** b

20. **Answer:** c

21. **Answer:** b

22. **Answer:** d

23. **Answer:** a

24. **Answer:** d

25. **Answer:** c

26. **Answer:** b

**27. Answer:** b

**28. Answer:** c

**29. Answer:** a

**30. Answer:** b