INFINITY THINK BEYOND.....

IX MIND CURVE Mid Term Maths Test Series 2025-26

Test 02

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S no	Syllabus Covered	Chapters(In Half Yearly)	Marking Scheme
1	Chapter 3	Coordinate Geometry	11
2	Chapter 4	Pair of Linear Equation In Two Variable	19
3	Chapter 5	Euclid's Geometry	10

Note: Students/Teachers can refer to this Sample Paper for practice purpose. However, students may find or experience different exam pattern as syllabus or marking scheme may vary school to school.

MM:40 | **GENERAL INSTRUCTIONS** | **Time:1.5Hrs**

READ CAREFULLY ALL INSTRUCTIONS

1. **This Question Paper has 5 Sections A, B, C, D and E.**
2. **Section A has 10 MCQs carrying 1 mark each**
3. **Section B has 3 questions carrying 02 marks each.**
4. **Section C has 2 questions carrying 03 marks each.**
5. **Section D has 2 case based integrated units of assessment (04 marks each) with sub parts of the values of 1, 1 and 2 marks each respectively**
6. **Section D has 2 questions carrying 05 marks each**
7. **All Questions are compulsory.**
8. **This paper consists of 19 questions.**
   a. **Write your answers neatly and legibly.**
   b. **Ensure you have not left any question unanswered**

SECTION – A

Questions 1 to 10 carry 1 mark each.

1. Absicca of a point is positive in _____Quadrants

(a)I and II (b) I and IV (c) I only (d)II only

2. Which of the following is not a linear equation in two variable

(a)2x=3 (b)4=5x-4y (c)x2+x=1 (d)x-$\sqrt{2}y$=3

3. Which is the standard from of linear equation x= -5

(a)x+5=0 (b)1.x-5=0 (c)x+0.y+5=0 (d)1.x+0.y =5

4. The linear equation 2x-5y =7 has

(a) a unique solution (b) two solution

(c) infinitely many solutions (d) no solution

5. The co-ordinates of a point on y-axis at a distance of 9 units x-axis and lying below it are:

(a) (-9,0) (b)(0,-9) (c)(9,0) (d) (0,9)

6. Which of the following is not a solution of 2x – 3y = 12:

(a) (0, –4) (b) (2, 3) (c) (6, 0) (d) (3, –2)

7. The distance of point p(-15,8) from the origin is

(a)15 units (b)17 units (c)8 units (d)23 units

8.The graph of the linear equation 2x+3y=6 cuts the y-axis the point

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

Assertion and Reason based questions

Two statements are given, one labelled as Assertion (A) and the other is labelled as Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below.

(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.

9. Assertion (A): According to Euclid's axiom, when equals are added to equals, whole are equal

Reason (R): If Rita and Rivi are of same age that is 10 years then after 6 years also they will have the same age.

10. Assertion (A): The point p(-3,0) lies on x-axis

Reason (R): Every point on x-axis form (x,0)

SECTION – B
Questions 11 to 13 carry 2 mark each.

11. For what value of k, the linear equation 2x+ky=8 has x=2 and y=1 as its solution.

12(A). State any two Euclid's axioms

Or

12(B). Write Euclid's fifth postulate

13. (a)Find Image of point (–3, –3) under x-axis.

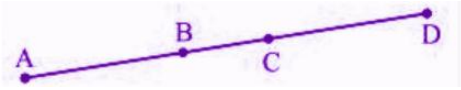
(b) If a point is on negative side of y-axis at a distance of 3 units from origin, then, find the co- ordinates of the point.

SECTION – C
Questions 14 to 15 carry 3 mark each

14(A). Solve 2x+7=6 .Using Euclid's axiom.

Or

14(B). In the given figure, if AC = BD, then prove that AB = CD**.**Using Euclids's axiom.

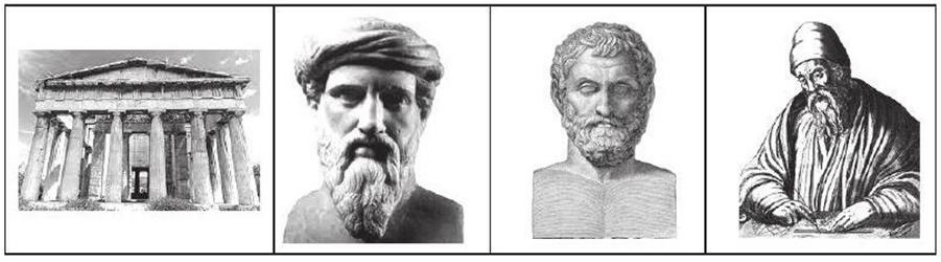


15. (a)Give the equation of two lines passing through (3,11)

(b)Find two different solutions of the equation x=4y

SECTION – D
Questions 16 to 17 carry 4 mark each.

16. A National Public School organised an education trip to a museum. Almost all the students of class IX went to the trip with their teacher of Mathematics. They saw many pictures of mathematicians and read about their contributions in the field of Mathematics. After visiting the museum, teacher asked the following questions from the students. On the basis of the above information, solve the following questions:



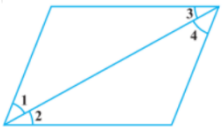
(i)What is the name of the mathematician who is visible in the last picture?

(ii)In which country Thales belong to?

(iii)(A)It is known that x + y = 10 and that x = z. Show that z + y = 10.Use Euclid's axiom to solve the given equation

Or

(iii)(B) In the Fig.if ∠1 = ∠3, ∠2 = ∠4 and ∠3 = ∠4, write the relation between ∠1 and ∠2, using an Euclid's axiom.



17. Teachers and students of class IX of a school had gone to Bharatpur wildlife sanctuary for study tour. After visiting different palaces of the sanctuary and deer park . A student krrish is a very keen observer. He puts the question to his friends , " How many birds are there and how many deer are there ? Nikhil gave the correct answer as follows:" total animal have 1200 eyes and 1700 legs".

(i)If x and y be the number of birds and deer respectively , write the equation of total number of eyes.

(ii)If x and y be the numbers of birds and deer respectively, write the equation of total numbers of legs.

(iii)(A)Find the total numbers of birds in the sanctuary.

OR

(iii)(B)Find the total numbers of deer in sanctuary.

SECTION – E
Questions 18 to 19 carry 5 mark each.

18. The auto rickshaw fare in a city is charged Rs.10 for first km and Rs. 4 per km for subsequent distance covered. Write the linear equation to express the above statement and find 3 solutions to the equation. Also, represent the above situation graphically.

19. Plot the following points on a graph sheet and join them in order B(-5,3) E(-3,-2), S (4,-2) , T(1,3). Name the figure formed. Also mention the quadrant in which the points lie.

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