

**CBT EXAM JUNE- JULY (2025-26)**  
**CLASS IX (MATHS)**

**# SYLLABUS :**

CHAPTER 2 : POLYNOMIALS (CONT...)
CHAPTER 3 : LINEAR EQUATIONS IN TWO VARIABLES
CHAPTER 4 : CO-ORDINATE GEOMETRY

**Q 1 :** Degree of the binomial  $x^{100} + x^{98}$  is :

- (a) 98                      (b) 100-98                      (c) 100                      (d) 100+98

**Q 2 :** The section formed by horizontal and vertical lines determining the position of the point in a Cartesian plane is called :

- (a) Origin                      (b) X-axis                      (c) Y-axis                      (d) Quadrants

**Q 3 :** The coordinates of the point (-5, 5) lies in quadrant :

- (a) I Quadrant                      (b) II Quadrant                      (c) III Quadrant                      (d) IV Quadrant

**Q 4 :** A linear equation has a Unique solution when there exists \_\_\_\_\_ which satisfies the linear equation.

- (a) two points                      (b) no point                      (c) only one point                      (d) infinitely many points

**Q 5 :** Which is a linear equation in one variable :

- (a)  $2x + 3y = 0$                       (b)  $y^2 = 5y + 3$   
(c)  $4x + 3x^3 = 12$                       (d)  $10x + 6 = -12$

**# Solution(s) of the equation :**  $4x - 4 = 6x + 4$

**Q 6 :** On number line :

- (a) one                      (b) two  
(c) infinite                      (d) not possible

**Q 7 :** On Cartesian plane :

- (a) one                      (b) two  
(c) infinite                      (d) not possible

**# CASE STUDY BASED :**

KV school decided different types of tours for the students to educate them. So, in class IX,  $\frac{1}{4}^{th}$  times the square of the total number of students planned to visit historical monuments and  $\frac{3}{4}^{th}$  times the number of students planned to visit Zoo while 3 students were absent due to certain reasons.

**Q 8 :** Using above information we can express the total number of students as a polynomial in terms of :

(a)  $\frac{x^2}{4} + \frac{3}{4}x + 3$

(b)  $\frac{x^2}{3} + \frac{4}{3}x + 3$

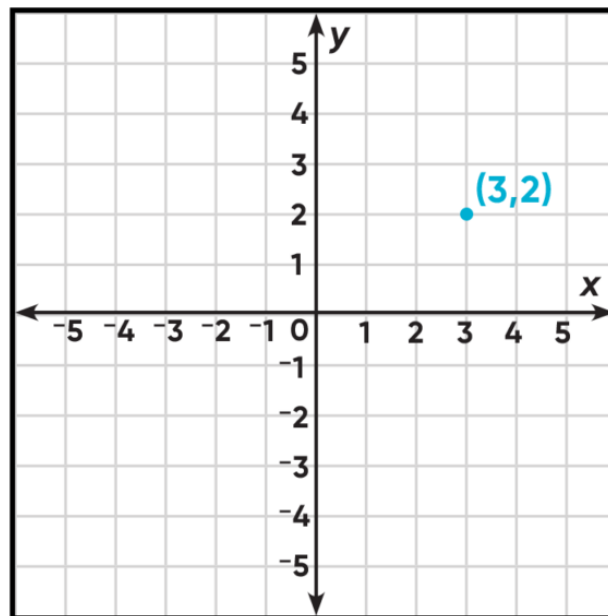
(c)  $\frac{3x^2}{4} + \frac{1}{4}x + 10$

(d)  $\frac{2x^2}{4} + \frac{3}{4}x + 3$

**Q 9 :** What is the value of  $p(x)$  at  $x = 4$  for the above expression ?

- (b) 5                      (b) 11                      (c) - 3                      (d) 10

**Q 10 :**What will be the reflection coordinates of A(3, 2) in X-axis and Y-axis?



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

### ANSWER KEY

**Q 1 :** (c) 100

**Q 2 :** (d) Quadrants

**Q 3 :** (b) II Quadrant

**Q 4 :** (c) only one point

**Q 5 :** (d)  $10x + 6 = -12$

**Q 6 :** (a) one

**Q 7 :** (c) infinite

**Q 8 :** (a)  $\frac{x^2}{4} + \frac{3}{4}x + 3$

**Q 9 :** (d) 10

**Q 10 :** (b) (-3, 2)