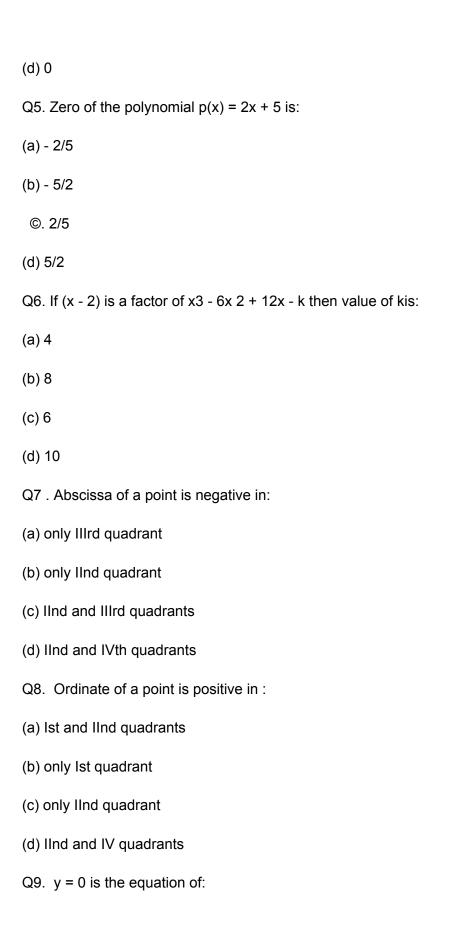
PT-1 (2024-25) CLASS IX.

(c) 2

TIME: 90 minute. Sub. Maths. M.M: 40

Section -A.	1×10=10
Q.1. Which of the following is an irrational:	
(a) 0.090909	
(c) 22/7	
(b) 0.25	
(d) √0.4	
Q2. A rational number betwe	en √2 and √3 is:
(a) √2+√3/2	
(b) √2+√3	
(C) 1.5	
(d) 1.8	
Q3. The value of 1.999 in the	e form p/q where p and q are integers and q not equal 0, is:
(a) 19/10	
(b) 1999/1000	
(c) 2	
(d) 1/9	
Q4. Degree of the polynomia	ıl 27 + y 2 - 3y3 + 5y5 is:
(a) 5	
(b) 3	



(a) x-axis	
(b) y-axis	
(c) both x-axis and y-axis	
(d) a line parallel to y-axis	
Q10. x = 0 is the equation of:	
(a) x-axis	
(b) y-axis	
(c) both x-axis and y-axis	
(d) a line parallel to x-axis	
Section -B 2×5=10	
Q11. Find the value of k, if $x = 2$ y = 1 is a solution of the equation $2x + 3y = k$.	
Q12. Factorise the following using appropriate identities: (i) 9x 2 + 6xy + y2	
Q13. Factorise the following quadratic polynomials by splitting the middle term : (i) $x2 - 25x + 144$	
Q14. Prove that $3 + \sqrt{5}$ is an irrational number.	
Q15. Express the following in the form p/q where pand qare integers and q ne0 : (i) 0 .overline 001 $$	
Section -c 2×5=10 Q(16-17) Assertion-Reason Questions:	
■Directions: In the following questions, a statement of Assertion (A) is followed by a statement of Reason (R). Mark the correct choice as:	
(a) Both A and R are true and R is the correct explanation of A.	
(b) Both A and R are true and R is NOT the correct explanation of A.	

- (c) A is true but R is false.
- (d) A is false and R is true.
- Q 16. **Assertion (A):** The points (-3, 8) and (8, 3) are at different positions in the coordinate plane.

Reason (R): If $x \ne y$, then position of (x, y) in the cartesian plane is different from the position of (x)

Q17. **Assertion (A):** The point (-6, 0) lies on y-axis and point (0, 7) lies on X-axis.

Reason (R): Every point on the X-axis has zero distance from X-axis and every point on the Y-axis has zero distance from y-axis.

Q(18-20)Case Based Questions:

. Radha distributed chocolates in an orphange, on her birthday, she gave 5 chocolates to each child and 20 chocolates to adults. Taking number of children as x and total chocolates distributed as y.

Q18. Write a linear equation, according to given question:

Q19. If she distributed 145 chocolates, then how many children are there in the orphange?

Q20. If she distributed 205 chocolates, then how many children are there in the orphange?

Q.21 Factorise x3 - 23x2 + 142x - 120

Q22. Verify that:

$$x3 + y3 + z3 - 3xyz = 1/2(x+y+z)[(x-y)2 + (y-z)2 + (z-x)2].$$