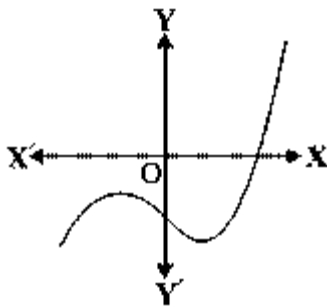


## CBSE TEST PAPER-02

### MATHEMATICS (Class-10)

#### Chapter 2. Polynomials

1. The graphs of  $y = p(x)$  are given in the figure below, a polynomial  $p(x)$ . Find the number of zeroes. (1 mark)



2. Write the zeroes of the polynomial  $4x^2 - 4x + 1$ . (1 mark)
3. Find the quadratic polynomial, the sum and product of whose zeroes are  $-3$  and  $2$ , respectively. (2 marks)
4. Find the quadratic polynomial, the sum and product of whose zeroes are  $\sqrt{2}$  and  $\frac{1}{3}$ , respectively. (2 marks)
5. If  $\alpha$  and  $\beta$  are the zeros of the given quadratic polynomial  $f(x) = 5x^2 - 7x + 1$ , find the value of  $\frac{1}{\alpha} + \frac{1}{\beta}$ . (2 marks)
6. Find the zeroes of the polynomial  $x^2 - 3$  and verify the relationship between the zeroes and the coefficients. (3 marks)
7. Find the zeroes of the quadratic polynomial  $x^2 - 2x - 8$  and verify the relationship between the zeroes and the coefficients. (3 marks)
8. Find the zeroes of the quadratic polynomial  $4s^2 - 4s + 1$  and verify the relationship between the zeroes and the coefficients. (3 marks)