# CBSE TEST PAPER-01 

## MATHEMATICS (Class-10)

## Chapter 2. Polynomials

1. The graph of $y=f(x)$ is given below. Find the number of zeroes of $f(x)$.
(1 mark)

2. Write the zeroes of the polynomial $\mathrm{x}^{2}-x-4$.
(1 mark)
3. Find a quadratic polynomial, the sum and product of whose zeroes are 0 and $\sqrt{5}$, respectively.
4. Find the quadratic polynomial, the sum and product of whose zeroes are 4 and 1, respectively.
5. If $\alpha$ and $\beta$ are the zeros of the quadratic polynomial $\mathrm{f}(\mathrm{x})=\mathrm{x}^{2}-5 \mathrm{x}+4$, find the value of $\frac{1}{\alpha}+\frac{1}{\beta}-2 \alpha \beta$.
6. Find the zeroes of the quadratic polynomial $4 \sqrt{3} x^{2}+5 x-2 \sqrt{3}$ and verify the relationship between the zeroes and the coefficients.
(3 marks)
7. Find the zeroes of the quadratic polynomial $4 u^{2}+8 u$ and verify the relationship between the zeroes and the coefficients.
