

# Mathematics

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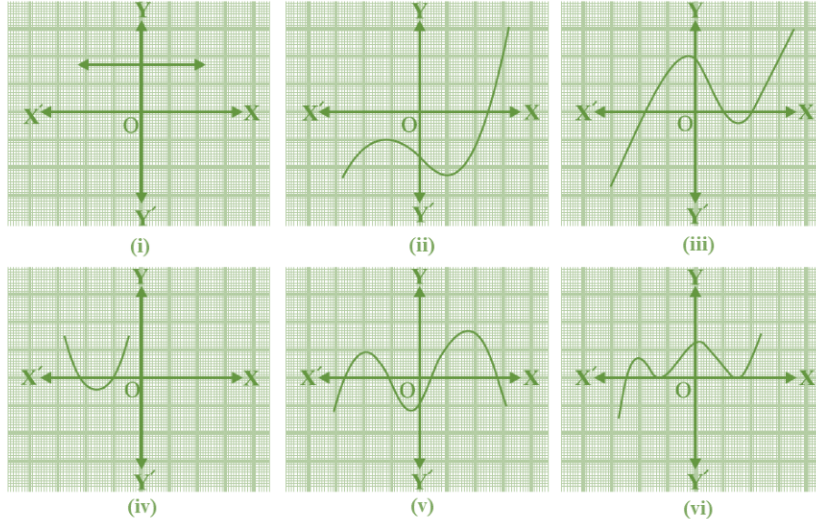
(Chapter - 2) (Polynomials)

(Class X)

## Exercise 2.1

### Question 1:

The graphs of  $y = p(x)$  are given in following figure, for some polynomials  $p(x)$ . Find the number of zeroes of  $p(x)$ , in each case.



### Answer 1:

- (i) The number of zeroes is 0 as the graph does not cut the x-axis at any point.
- (ii) The number of zeroes is 1 as the graph intersects the x-axis at only 1 point.
- (iii) The number of zeroes is 3 as the graph intersects the x-axis at 3 points.
- (iv) The number of zeroes is 2 as the graph intersects the x-axis at 2 points.
- (v) The number of zeroes is 4 as the graph intersects the x-axis at 4 points.
- (vi) The number of zeroes is 3 as the graph intersects the x-axis at 3 points.