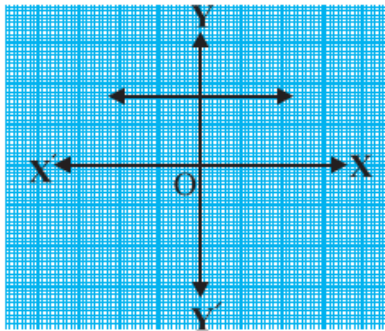
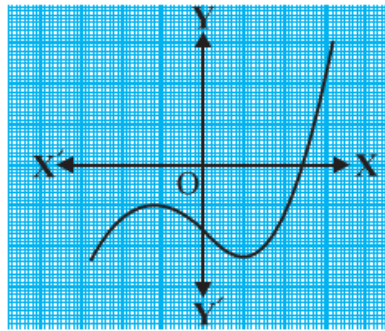


Polynomials: Exercise - 2.1

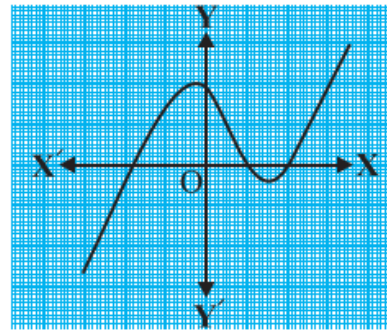
Q.1 The graphs of $y = p(x)$ are given in figures below for some polynomials $p(x)$. Find the number of zeroes of $p(x)$, in each case.



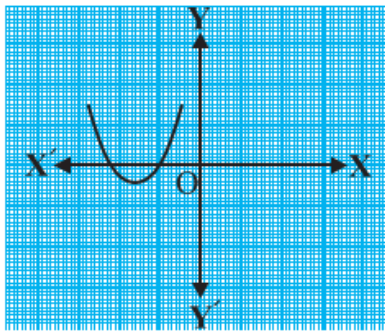
(i)



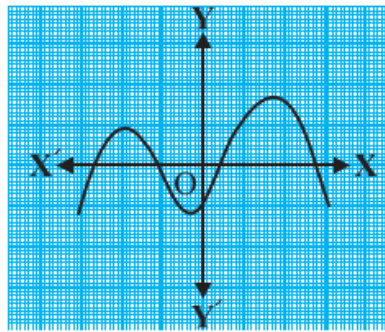
(ii)



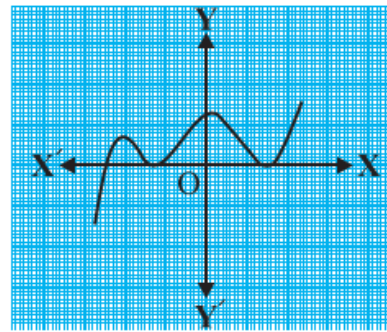
(iii)



(iv)



(v)



(vi)

Sol.

(i) In the given graph, there are no zeroes of $p(x)$ because the graph does not intersect the x-axis.

(ii) In the given graph, the number of zeroes is one of $p(x)$ because the graph intersects the x-axis at one point only.

(iii) In the given graph, the number of zeroes is three of $p(x)$ because the graph intersects the x-axis at three points.

(iv) In the given graph, the number of zeroes is two of the $p(x)$ because the graph intersects the x-axis at two points.

(v) In the given graph, the number of zeroes is four of $p(x)$ because the graph intersects the x-axis at four points.

(vi) In the given graph, the number of zeroes is three of $p(x)$ because the graph intersects the x-axis at three points.