

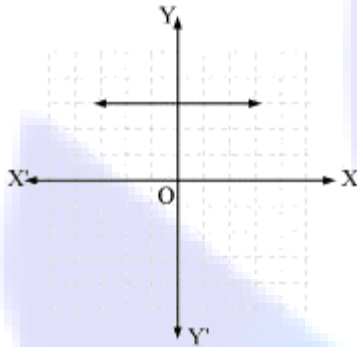


**SpeedLabs**  
**MATHS**

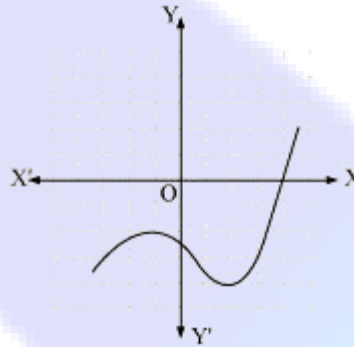
**CBSE 10<sup>th</sup>**

**TEEVRA EDUTECH PVT. LTD.**

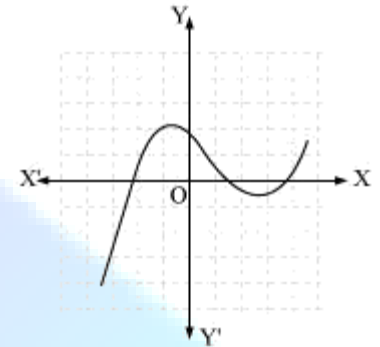
**Q.1** The graphs of  $y = p(x)$  are given in following figure, for some polynomials  $p(x)$ . Find the number of zeroes of  $p(x)$ , in each case.



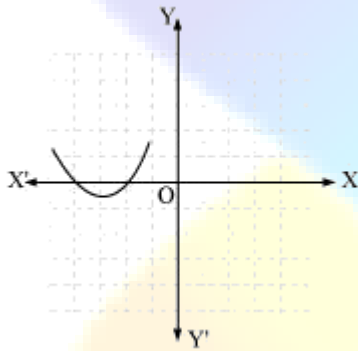
(i)



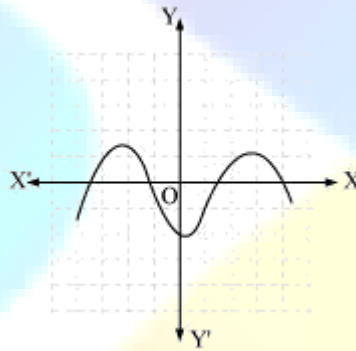
(ii)



(iii)



(iv)



(v)

**Sol:**

- (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.