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Class X : MATH Chapter - 2 : Polynomial Qusetions & Answers - Exercise : 2.1 - NCERT Book

Q1. The graph of y = p(x) are given in fig below, for some polynomials p(x). Find the number of zeros of p(x), in each case.





Sol. (i) Graph of y = p(x) does not intersect the x-axis. Hence, polynomial p(x) has no zero.

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- (ii) Graph of y = p(x) intersects the x-axis at one and only one point. Hence, polynomial p(x) has one and only one real zero.
- Graph of y = p(x) intersects the x-axis at 3 (iii) points. Hence, polynomial p(x) has 3 zeros.
- Graph of y = p(x) intersects the x-axis at 2 points. Hence, polynomial p(x) has 2 zeros. (iv)
- Graph of y = p(x) intersects the x-axis at 4 points. Hence, polynomial p(x) has 4 zeros. (v)
- Graph of y = p(x) intersects the x-axis at 1 points and touch x-axis at 2 points. Hence, p(x)(vi) has 3 zeros.

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