# EXERCISE 2.1

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## Polynomials

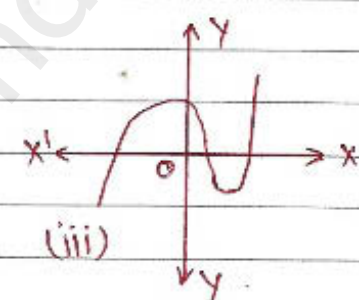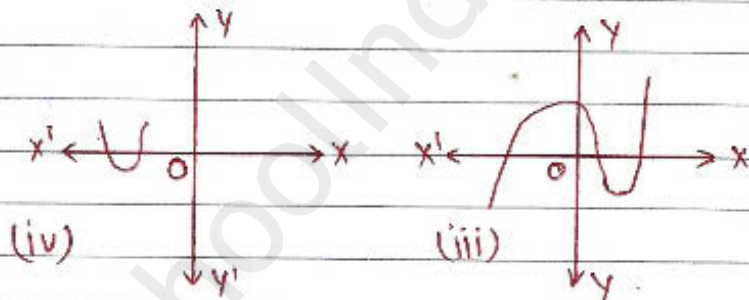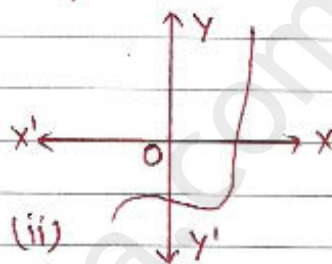Q1. The graphs of $y = p(x)$ are given in figure below, for some polynomials $p(x)$. Find the number of zeroes of $p(x)$, in each case.



(i)   (ii)

(iv)   (iii)

(V)   (vi)

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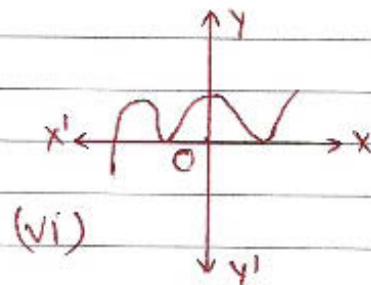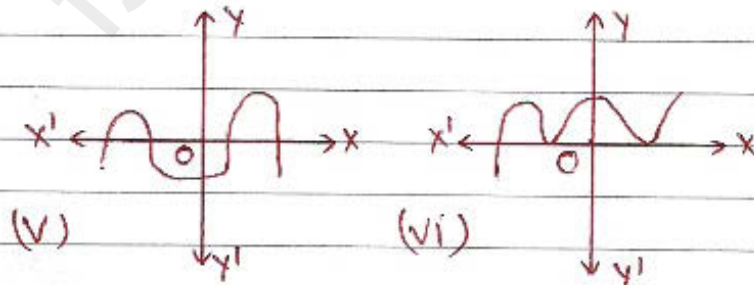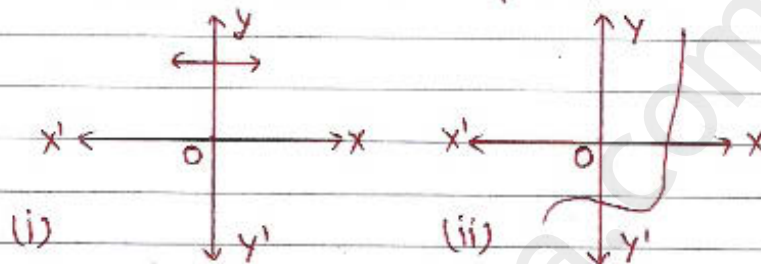
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Ans.

(i) From the graph, it is clear that it does not meet x-axis at any point. Therefore, It has Nil, no. of zeroes.

(ii) From the graph, it is clear that it meets x-axis at only one point. Therefore, it has only one number of zeros.

(iii) From the graph, it is clear that it meets x-axis at three points. Therefore, it has three number of zeros.

(iv) From the graph, it is clear that it meets x-axis at two points. Therefore, it has two number of zeros.

(v) From the graph, it is clear that it meets x-axis at four points. Therefore, it has four number of zeros.

(vi) From the graph, it is clear that it meets x-axis at three points. Therefore, it has three number of zeros.